

Db 202 VRYLASSLGEGGIRV 216

RESULT 3
US-09-438-144-3
Sequence 3, Application US/09438144
Patient No. 6531291

GENERAL INFORMATION:

APPLICANT: Kabbash, Christina
APPLICANT: Silverstein, Samuel C.
APPLICANT: Shuman, Howard A.

APPLICANT: Blanchard, Josh S.

TITLE OF INVENTION: NOVEL ANTIMICROBIAL ACTIVITY OF GEMFIBROZIL AND RELATED COMPOUNDS

FILE REFERENCE: 0575/58043

CURRENT APPLICATION NUMBER: US/09/438,144

CURRENT FILING DATE: 1999-11-10

NUMBER OF SEQ ID NOS: 7

SOFTWARE: PatentIn version 3.1

SEQ ID NO: 3

LENGTH: 219

TYPE: PRT

ORGANISM: S. typhimurium

US-09-438-144-3

Query Match 62.8%; Score 49; DB 4; Length 219;
Best Local Similarity 60.0%; Pred. No. 0.64%;
Matches 9; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MRYRASALGSDGVRY 15

Db 170 VRYMANAMGPEGVRY 184

RESULT 4
US-09-438-144-2

Sequence 2, Application US/09438144

Patient No. 6531291

GENERAL INFORMATION:

APPLICANT: Kabbash, Christina

APPLICANT: Silverstein, Samuel C.

APPLICANT: Shuman, Howard A.

APPLICANT: Blanchard, Josh S.

TITLE OF INVENTION: NOVEL ANTIMICROBIAL ACTIVITY OF GEMFIBROZIL AND RELATED COMPOUNDS

FILE REFERENCE: 0575/58043

CURRENT APPLICATION NUMBER: US/09/438,144

CURRENT FILING DATE: 1999-11-10

NUMBER OF SEQ ID NOS: 7

SOFTWARE: PatentIn version 3.1

SEQ ID NO: 2

LENGTH: 220

TYPE: PRT

ORGANISM: E. coli

US-09-438-144-2

Query Match 62.9%; Score 49; DB 4; Length 220;
Best Local Similarity 60.0%; Pred. No. 0.65%;
Matches 9; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MRYRASALGSDGVRY 15

Db 171 VRYMANAMGPEGVRY 185

RESULT 5
US-09-241-766-8

Sequence 8, Application US/08241766

Patient No. 5686590

GENERAL INFORMATION:

APPLICANT: JACOBS, W. R.

APPLICANT: COLLINS, D. M.

APPLICANT: BANERJEE, A.

APPLICANT: delISLE, G. W.

APPLICANT: MORRISON & FOERSTER

STREET: 755 Page Mill Road

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94304-1018

COMPUTER READABLE FORM:

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICANT: BANERJEE, A.
APPLICANT: delISLE, G. W.
APPLICANT: WILSON, T. M.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DETECTING
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/241,766
FILING DATE: 12-MAY-1994
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: MONROY, GLADYS H.
REGISTRATION NUMBER: 32,430
TELECOMMUNICATION INFORMATION:
REFERENCE/DOCKET NUMBER: 25227-200003.20
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-241-766-8

Query Match 62.8%; Score 49; DB 1; Length 262;
Best Local Similarity 60.0%; Pred. No. 0.78%;
Matches 9; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MRYRASALGSDGVRY 15
Db 170 VRYMANAMGPEGVRY 184

RESULT 6
US-08-241-766-9

Sequence 9, Application US/08241766
Patent No. 5686590

GENERAL INFORMATION:
APPLICANT: JACOBS, W. R.
APPLICANT: COLLINS, D. M.
APPLICANT: BANERJEE, A.
APPLICANT: delISLE, G. W.
APPLICANT: MORRISON, T. M.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DETECTING
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
CURRENT APPLICATION DATA:

```

APPLICATION NUMBER: US/08/241,766
FILING DATE: 12-MAY-1994
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: MONROY, GLADYS H.
REGISTRATION NUMBER: 32,430
REFERENCE/DOCKET NUMBER: 25237-20003 .20
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLogy: linear
US-08-241-766-9

Query Match
Best Local Similarity 62.4%; Score 49; DB 4; Length 275;
Matches 9; Conservative 5; Pred. No. 1.2%; Mismatches 2; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
FILE REFERENCE: 2709 2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 10044
LENGTH: 1059
TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-10044

RESULT 9
Sequence 7939, Application US/09489039A
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709 2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 7939
LENGTH: 270
TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-7939

Query Match
Best Local Similarity 62.8%; Score 49; DB 4; Length 270;
Matches 9; Conservative 4; Pred. No. 0.81%; Mismatches 2; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
FILE REFERENCE: 2709 2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 10044
LENGTH: 1059
TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-10044

RESULT 10
Sequence 7939, Application US/09489039A
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709 2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 7939
LENGTH: 270
TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-7939

Query Match
Best Local Similarity 62.8%; Score 49; DB 4; Length 270;
Matches 9; Conservative 4; Pred. No. 0.81%; Mismatches 2; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
FILE REFERENCE: 2709 2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 10044
LENGTH: 1059
TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-10044

RESULT 8
Sequence 178, Application US/09543681A
GENERAL INFORMATION:
APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
FILE REFERENCE: 2709 1002-001
CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
LENGTH: 275

Query Match
Best Local Similarity 56.4%; Score 44; DB 4; Length 226;
Matches 8; Conservative 5; Pred. No. 4.8%; Mismatches 2; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
FILE REFERENCE: 2709 1002-001
CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
LENGTH: 275

RESULT 9
Sequence 178, Application US/09489039A
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
FILE REFERENCE: 2709 1002-001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
LENGTH: 1059

Query Match
Best Local Similarity 56.4%; Score 44; DB 4; Length 226;
Matches 8; Conservative 5; Pred. No. 4.8%; Mismatches 2; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
FILE REFERENCE: 2709 1002-001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
LENGTH: 1059

Query Match
Best Local Similarity 53.3%; Score 44; DB 4; Length 226;
Matches 8; Conservative 5; Pred. No. 4.8%; Mismatches 2; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
FILE REFERENCE: 2709 1002-001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
LENGTH: 1059

Query Match
Best Local Similarity 56.4%; Score 44; DB 4; Length 226;
Matches 8; Conservative 5; Pred. No. 4.8%; Mismatches 2; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
FILE REFERENCE: 2709 1002-001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
LENGTH: 1059

Query Match
Best Local Similarity 53.3%; Score 44; DB 4; Length 226;
Matches 8; Conservative 5; Pred. No. 4.8%; Mismatches 2; Indels 0; Gaps 0;
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
FILE REFERENCE: 2709 1002-001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
LENGTH: 1059

```

RESULT 11
 US-09-438-144-7
 ; Sequence 7, Application US/09438144
 ; GENERAL INFORMATION:
 ; APPLICANT: Kabbash, Christina
 ; APPLICANT: Silverstein, Samuel C.
 ; APPLICANT: Shuman, Howard A.
 ; APPLICANT: Blanchard, Josh S.
 ; TITLE OF INVENTION: NOVEL ANTIMICROBIAL ACTIVITY OF GENEFIBROZIL AND RELATED COMPOUNDS
 ; FILE REFERENCE: 0575/58043
 ; CURRENT APPLICATION NUMBER: US/09/438,144
 ; CURRENT FILING DATE: 1999-11-10
 ; NUMBER OF SEQ ID NOS: 7
 ; SEQ ID NO: 7
 ; LENGTH: 268
 ; TYPE: PRT
 ; ORGANISM: *L. pneumophila* enoyl reductase
 US-09-438-144-7

Query Match
 Best Local Similarity 56.4%; Score 44; DB 4; Length 268;
 Matches 5; Pred. No. 5.8%; Indels 0; Gaps 0;

Qy 1 MRYRASALGSDGVRY 15
 Db 177 VRYLAASLGSRGLRI 191

RESULT 12
 US-09-252-991A-30277
 ; Sequence 30277, Application US/09252991A
 ; Patent No. 6551795
 ; GENERAL INFORMATION:
 ; APPLICANT: Marc J. Rubenfield et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 ; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
 ; FILE REFERENCE: 107196.136
 ; CURRENT APPLICATION NUMBER: US/09/252,991A
 ; CURRENT FILING DATE: 1999-02-18
 ; PRIOR APPLICATION NUMBER: US 60/074,788
 ; PRIOR FILING DATE: 1998-02-18
 ; PRIOR APPLICATION NUMBER: US 60/094,190
 ; PRIOR FILING DATE: 1998-07-27
 ; NUMBER OF SEQ ID NOS: 33142
 ; SEQ ID NO: 30277
 ; LENGTH: 272
 ; TYPE: PRT
 ; ORGANISM: *Pseudomonas aeruginosa*
 US-09-252-991A-30277

Query Match
 Best Local Similarity 56.4%; Score 44; DB 4; Length 272;
 Matches 4; Pred. No. 5.9%; Indels 0; Gaps 0;

Qy 1 MRYRASALGSDGVRY 15
 Db 180 VRYLAASLGREGTRY 194

RESULT 13
 US-09-252-991A-25521
 ; Sequence 25521, Application US/09252991A
 ; Patent No. 6551795
 ; GENERAL INFORMATION:
 ; APPLICANT: Marc J. Rubenfield et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 ; FILE REFERENCE: 107196.136
 ; CURRENT APPLICATION NUMBER: US/09/252,991A
 ; CURRENT FILING DATE: 1999-02-18

Query Match
 Best Local Similarity 52.6%; Score 41; DB 4; Length 330;
 Matches 7; Pred. No. 24%; Indels 2; Gaps 0;

Qy 2 RYRASALGSDGV 13
 :|||:|||:
 Db 316 KYRNLNAIAGDGV 327

RESULT 14
 US-09-439-039A-9018
 ; Sequence 9018, Application US/09439039A
 ; Patent No. 6610336
 ; GENERAL INFORMATION:
 ; APPLICANT: Gary Breton et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
 ; CURRENT APPLICATION NUMBER: US/09/489,039A
 ; FILE REFERENCE: 2709.2004001
 ; CURRENT FILING DATE: 2000-01-27
 ; PRIOR APPLICATION NUMBER: US 60/117,747
 ; PRIOR FILING DATE: 1999-01-29
 ; NUMBER OF SEQ ID NOS: 14342
 ; SEQ ID NO: 9018
 ; LENGTH: 492
 ; TYPE: PRT
 ; ORGANISM: *Klebsiella pneumoniae*
 US-09-439-039A-9018

Query Match
 Best Local Similarity 51.3%; Score 40; DB 4; Length 492;
 Matches 3; Pred. No. 55%; Indels 3; Gaps 0;

Qy 1 MRYRASALGSDGV 13
 :|||:|||:
 Db 365 MRYPVTMIGSDGL 377

RESULT 15
 US-09-124-978B-2
 ; Sequence 2, Application US/09124978B
 ; Patent No. 6656445
 ; GENERAL INFORMATION:
 ; APPLICANT: Falco, Saverio Carl
 ; APPLICANT: Allen, Stephen M.
 ; APPLICANT: Rafalski, J. Antoni
 ; APPLICANT: Hitz, William D.
 ; APPLICANT: Kinney, Anthony J.
 ; APPLICANT: Abell, Lynne N.
 ; APPLICANT: Thorpe, Catherine J.
 ; TITLE OF INVENTION: Plant Amino Acid Biosynthetic Enzymes
 ; FILE REFERENCE: BB-1087
 ; CURRENT FILING DATE: 1999-12-02
 ; PRIOR APPLICATION NUMBER: US 60/048,771
 ; PRIOR FILING DATE: 1997-06-06
 ; NUMBER OF SEQ ID NOS: 43
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO: 2
 ; LENGTH: 224
 ; TYPE: PRT
 ; ORGANISM: *Zea mays*

US-09-424-978B-2

Query Match 50.0%; Score 39; DB 4; Length 224;
Best Local Similarity 66.7%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 4 RASAIGSGYRV 15
Db 153 RGQLIGEDGURV 164

Search completed: March 30, 2004, 15:13:37
Job time : 1.51321 secs

Result No.	Score	Query	Match	Length	DB ID	Description
%						
1	78	100.0	16	14	US-10-287-216-2	Sequence 2, Appli
2	78	100.0	1044	14	US-10-287-216-1	Sequence 1, Appli
3	55	71.8	208	14	US-10-282-122A-66916	Sequence 4, Appli
4	52	66.7	288	12	US-10-282-122A-45237	Sequence 45237, A
5	51	65.4	262	15	US-10-369-493-388	Sequence 388, App
6	51	65.4	262	15	US-10-369-493-21191	Sequence 21191, A
7	50	64.1	260	12	US-10-282-122A-66916	Sequence 66916, A
8	49	64.1	274	12	US-10-282-122A-62934	Sequence 62934, A
9	49	62.8	219	14	US-10-366-686-2	Sequence 2, Appli
10	49	62.8	219	14	US-10-366-686-3	Sequence 3, Appli
11	49	62.8	262	9	US-09-815-242-10152	Sequence 10152, A
12	49	62.8	262	12	US-10-282-122A-42969	Sequence 42969, A
13	49	62.8	262	12	US-10-282-122A-55624	Sequence 55624, A
14	49	62.8	262	12	US-10-282-122A-59396	Sequence 59396, A
15	49	62.8	262	12	US-10-282-122A-74933	Sequence 74933, A

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

RESULT 2
 US-10-287-216-1
 Sequence 1, Application US/10287216
 Publication No. US20030186375A1
 GENERAL INFORMATION:
 / APPLICANT: de Lanerolle, Primal
 / APPLICANT: No. US20030186375A1ak, Grzegorz
 / APPLICANT: Pestic-Dragovich, Lidija
 / APPLICANT: Stojiljkovic, Ljuba
 / APPLICANT: Hozak, Pavel
 / TITLE OF INVENTION: Nuclear Myosin I B with A 16 Amino Acid N-Terminal
 / TITLE OF INVENTION: Extension
 / CURRENT APPLICATION NUMBER: US/10/287.216
 / CURRENT FILING DATE: 2002-11-04
 / PRIOR APPLICATION NUMBER: US/09/893,371
 / PRIOR FILING DATE: 2001-06-27
 / PRIOR APPLICATION NUMBER: 60/214,944
 / PRIOR FILING DATE: 2000-06-29
 / NUMBER OF SEQ ID NOS: 6
 / SOFTWARE: PatentIn Ver. 2.1
 / SEQ ID NO: 1
 / LENGTH: 1044
 / TYPE: PRT
 / ORGANISM: Artificial Sequence
 / FEATURE:
 / OTHER INFORMATION: Description of Artificial Sequence:Nuclear Myosin
 US-10-287-216-1

Query Match Score 78; DB 14; Length 1044;
 Best Local Similarity 100.0%; Pred. No. 5.2e-05;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRYRASALGSQDGVRT 16
 Db 1 MRYRASALGSQDGVRT 16

RESULT 3
 US-10-287-216-4
 / Sequence 4, Application US/10287216
 / Publication No. US20030186375A1
 / GENERAL INFORMATION:
 / APPLICANT: de Lanerolle, Primal
 / APPLICANT: No. US20030186375A1ak, Grzegorz
 / APPLICANT: Pestic-Dragovich, Lidija
 / APPLICANT: Stojiljkovic, Ljuba
 / APPLICANT: Hozak, Pavel
 / TITLE OF INVENTION: Nuclear Myosin I B with A 16 Amino Acid N-Terminal
 / TITLE OF INVENTION: Extension
 / FILE REFERENCE: 30151/92399
 / CURRENT APPLICATION NUMBER: US/10/287,216
 / CURRENT FILING DATE: 2002-11-04
 / PRIOR APPLICATION NUMBER: 60/214,944
 / PRIOR FILING DATE: 2000-06-27
 / NUMBER OF SEQ ID NOS: 6
 / SOFTWARE: PatentIn Ver. 2.1
 / SEQ ID NO: 4
 / LENGTH: 20
 / TYPE: PRT
 / ORGANISM: Artificial Sequence
 / OTHER INFORMATION: Description of Artificial Sequence:NMI Beta
 / OTHER INFORMATION: Peptide Overlapping Consensus Start Site
 US-10-287-216-4

Query Match Score 52; DB 12; Length 288;
 Best Local Similarity 66.7%; Pred. No. 0.53%;
 Matches 10; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MRYRASALGSQDGVRT 15
 Db 194 VRYLASSLGVDGIRV 208

RESULT 4
 US-10-282-122A-45237
 / Sequence 45237, Application US/10282122A
 / Publication No. US2004029129A1
 / GENERAL INFORMATION:
 / APPLICANT: Wang, Liangu
 / APPLICANT: Zamudio, Carlos
 / APPLICANT: Malone, Cheryl
 / APPLICANT: Haselbeck, Robert
 / APPLICANT: Ohlsen, Karl
 / APPLICANT: Zyskind, Judith
 / APPLICANT: Wall, Daniel
 / APPLICANT: Trawick, John
 / APPLICANT: Carr, Grant
 / APPLICANT: Yamamoto, Robert
 / APPLICANT: Forsyth, R.
 / APPLICANT: Xu, H.
 / TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 / FILE REFERENCE: EIJTRA-034A
 / CURRENT APPLICATION NUMBER: US/10/282,122A
 / CURRENT FILING DATE: 2003-02-20
 / PRIOR APPLICATION NUMBER: 60/191,078
 / PRIOR FILING DATE: 2000-03-21
 / PRIOR APPLICATION NUMBER: 60/206,848
 / PRIOR FILING DATE: 2000-05-23
 / PRIOR APPLICATION NUMBER: 60/207,727
 / PRIOR FILING DATE: 2000-05-26
 / PRIOR APPLICATION NUMBER: 60/230,335
 / PRIOR FILING DATE: 2000-09-06
 / PRIOR APPLICATION NUMBER: 60/206,848
 / PRIOR FILING DATE: 2000-09-09
 / PRIOR APPLICATION NUMBER: 60/242,578
 / PRIOR FILING DATE: 2000-10-23
 / PRIOR APPLICATION NUMBER: 60/253,625
 / PRIOR FILING DATE: 2000-11-27
 / PRIOR APPLICATION NUMBER: 60/257,931
 / PRIOR FILING DATE: 2000-12-22
 / PRIOR APPLICATION NUMBER: 60/267,636
 / PRIOR FILING DATE: 2001-02-09
 / PRIOR FILING DATE: 2001-06-16
 / Remaining Prior Application data removed - See File Wrapper or PALM.
 / NUMBER OF SEQ ID NOS: 78624
 / SOFTWARE: PatentIn version 3.1
 / SEQ ID NO: 45237
 / LENGTH: 288
 / TYPE: PRT
 / ORGANISM: Acinetobacter baumannii
 US-10-282-122A-45237

Query Match Score 52; DB 12; Length 288;
 Best Local Similarity 66.7%; Pred. No. 0.53%;
 Matches 10; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MRYRASALGSQDGVRT 15
 Db 194 VRYLASSLGVDGIRV 208

RESULT 5
 US-10-369-493-388
 / Sequence 388, Application US/10369493
 / Publication No. US20030233675A1
 / GENERAL INFORMATION:
 / APPLICANT: Cao, Yongwei
 / APPLICANT: Hinkie, Gregory J.
 / APPLICANT: Slater, Steven C.

APPLICANT: Goldman, Barry S.
 APPLICANT: Chen, Xianfeng
 TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF PLANTS WITH IMPROVED PROPERTIES
 FILE REFERENCE: 38-101052052.B
 CURRENT APPLICATION NUMBER: US/10/369,493
 CURRENT FILING DATE: 2003-02-28
 PRIOR APPLICATION NUMBER: US 60/360,039
 PRIOR FILING DATE: 2002-02-21
 SEQ ID NO: 388
 LENGTH: 262
 TYPE: PRT
 ORGANISM: Xenorhabdus nematophilus
 FEATURE:
 NAME/KEY: unsure
 LOCATION: (1) ..(262)
 OTHER INFORMATION: unsure at all Xaa locations
 US-10-369-493-388

Query Match 65.4%; Score 51; DB 15; Length 262;
 Best Local Similarity 60.0%; Pred. No. 0.71;
 Matches 9; Conservative 5; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 MYRASALSGDGVRY 15
 Db 170 VRYMANAMGAEGVRY 184

RESULT 6
 US-10-369-493-21191
 ; Sequence 21191, Application US/10369493
 ; Publication No. US2003233675A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Cao, Yongwei
 ; APPLICANT: Hinkle, Gregory J.
 ; APPLICANT: Slater, Steven C.
 ; APPLICANT: Goldman, Barry S.
 ; APPLICANT: Chen, Xianfeng
 TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF PLANTS WITH IMPROVED PROPERTIES
 FILE REFERENCE: 38-101052052.B
 CURRENT APPLICATION NUMBER: US/10/369,493
 CURRENT FILING DATE: 2003-02-28
 PRIOR APPLICATION NUMBER: US 60/360,039
 PRIOR FILING DATE: 2002-02-21
 SEQ ID NO: 21191
 LENGTH: 262
 TYPE: PRT
 ORGANISM: Xenorhabdus nematophilus
 US-10-369-493-21191

Query Match 65.4%; Score 51; DB 15; Length 262;
 Best Local Similarity 60.0%; Pred. No. 0.71;
 Matches 9; Conservative 5; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 MYRASALSGDGVRY 15
 Db 170 VRYMANAMGAEGVRY 184

RESULT 7
 US-10-282-122a-66916
 ; Sequence 66916, Application US/10282122A
 ; Publication No. US20040029129A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangsu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cherry
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Xu, H.

APPLICANT: Wall, Daniel
 APPLICANT: Trawick, John
 APPLICANT: Carr, Grant
 APPLICANT: Yamamoto, Robert
 APPLICANT: Forsyth, R.
 APPLICANT: Xu, H.
 TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 FILE REFERENCE: ELITRA 034A
 CURRENT APPLICATION NUMBER: US/10/282,122A
 CURRENT FILING DATE: 2003-02-20
 PRIOR APPLICATION NUMBER: 60/191,078
 PRIOR FILING DATE: 2000-03-21
 PRIOR APPLICATION NUMBER: 60/206,848
 PRIOR FILING DATE: 2000-05-23
 PRIOR APPLICATION NUMBER: 60/207,727
 PRIOR FILING DATE: 2000-05-26
 PRIOR APPLICATION NUMBER: 60/230,335
 PRIOR FILING DATE: 2000-09-06
 PRIOR APPLICATION NUMBER: 60/230,347
 PRIOR FILING DATE: 2000-09-09
 PRIOR APPLICATION NUMBER: 60/242,578
 PRIOR FILING DATE: 2000-10-23
 PRIOR APPLICATION NUMBER: 60/253,625
 PRIOR FILING DATE: 2000-11-27
 PRIOR APPLICATION NUMBER: 60/257,931
 PRIOR FILING DATE: 2000-12-22
 PRIOR APPLICATION NUMBER: 60/267,636
 PRIOR FILING DATE: 2001-02-09
 PRIOR APPLICATION NUMBER: 60/269,308
 ; Remaining Prior Application data removed - See File Wrapper or PAIM.
 ; NUMBER OF SEQ ID NOS: 78614
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO: 66916
 ; LENGTH: 260
 ; TYPE: PRT
 ; ORGANISM: Pasteurella multocida
 US-10-282-122a-66916

Query Match 64.1%; Score 50; DB 12; Length 260;
 Best Local Similarity 64.3%; Pred. No. 1.1;
 Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
 Qy 2 RYRASALGSDGVRY 15
 Db 171 RFM9ALGSDGIRV 184

RESULT 8
 US-10-282-122a-62934
 ; Sequence 62934, Application US/10282122A
 ; Publication No. US20040029129A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangsu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cherry
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Xu, H.

APPLICANT: Forsyth, R.
 TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 FILE REFERENCE: ELITRA 034A
 CURRENT APPLICATION NUMBER: US/10/282,122A
 CURRENT FILING DATE: 2003-02-20
 PRIOR APPLICATION NUMBER: 60/191,078
 PRIOR FILING DATE: 2000-03-21
 PRIOR APPLICATION NUMBER: 60/206,848
 PRIOR FILING DATE: 2000-05-23

PRIOR APPLICATION NUMBER: 60/207,727
 PRIOR FILING DATE: 2000-05-26
 PRIOR APPLICATION NUMBER: 60/230,335
 PRIOR FILING DATE: 2000-09-06
 PRIOR APPLICATION NUMBER: 60/230,347
 PRIOR FILING DATE: 2000-09-09
 PRIOR APPLICATION NUMBER: 60/242,578
 PRIOR FILING DATE: 2000-10-23
 PRIOR APPLICATION NUMBER: 60/253,625
 PRIOR FILING DATE: 2000-11-27
 PRIOR APPLICATION NUMBER: 60/257,931
 PRIOR FILING DATE: 2000-12-22
 PRIOR APPLICATION NUMBER: 60/267,636
 PRIOR FILING DATE: 2001-02-09
 PRIOR APPLICATION NUMBER: 60/269,308
 PRIOR FILING DATE: 2001-02-16
 Remaining Prior Application data removed - See File Wrapper or PALM.
 NUMBER OF SEQ ID NOS: 78614
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 62934
 LENGTH: 274
 TYPE: PRT
 ORGANISM: Moraxella catarrhalis
 US-10-284-122A-62934

Query Match 64.1%; Score 50; DB 12; Length 274;
 Best Local Similarity 60.0%; Pred. No. 1.1;
 Matches 9; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MRYRASALGSDGVRV 15
 Db 175 VRYLASSLGGEGIRV 189

RESULT 9
 US-10-366-686-2
 Sequence 2, Application US/10366686
 Publication No. US20030191146A1
 GENERAL INFORMATION
 APPLICANT: Kabbash, Christina
 APPLICANT: Silverstein, Samuel
 APPLICANT: Shuman, Howard A
 APPLICANT: Blanchard, John S
 TITLE OF INVENTION: NOVEL ANTIMICROBIAL ACTIVITY OF GEMFIBROZIL AND RELATED COMPOUNDS
 FILE REFERENCE: 0575/58043
 CURRENT APPLICATION NUMBER: US/10/366,686
 CURRENT FILING DATE: 2003-02-13
 NUMBER OF SEQ ID NOS: 7
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 2
 LENGTH: 219
 TYPE: PRT
 ORGANISM: E. coli
 US-10-366-686-2

Query Match 62.8%; Score 49; DB 14; Length 219;
 Best Local Similarity 60.0%; Pred. No. 1.3;
 Matches 9; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MRYRASALGSDGVRV 15
 Db 170 VRYMANANGPPEGYRV 184

RESULT 10
 US-10-366-686-3
 Sequence 3, Application US/10366686
 Publication No. US20030191146A1
 GENERAL INFORMATION
 APPLICANT: Kabbash, Christina
 APPLICANT: Silverstein, Samuel
 APPLICANT: Shuman, Howard A

RESULT 11
 US-09-815-242-10152
 Sequence 10152, Application US/09815242
 Patent No. US2002001569A1
 GENERAL INFORMATION
 APPLICANT: Haselbeck, Robert
 APPLICANT: Ohlsen, Kari L.
 APPLICANT: Zyskind, Judith W.
 APPLICANT: Wall, Daniel
 APPLICANT: Trawick, John D.
 APPLICANT: Carr, Grant J.
 APPLICANT: Yamamoto, Robert T.
 APPLICANT: Xu, H. Howard
 TITLE OF INVENTION: Identification of Essential Genes in Prokaryotes
 FILE REFERENCE: EIJTRA_011A
 CURRENT APPLICATION NUMBER: US/09/815,242
 PRIOR APPLICATION NUMBER: 2001-03-21
 PRIOR FILING DATE: 2001-03-21
 PRIOR APPLICATION NUMBER: 60/191,078
 PRIOR FILING DATE: 2000-03-21
 PRIOR APPLICATION NUMBER: 60/206,848
 PRIOR FILING DATE: 2000-05-23
 PRIOR APPLICATION NUMBER: 60/207,727
 PRIOR FILING DATE: 2000-05-26
 PRIOR APPLICATION NUMBER: 60/242,578
 PRIOR FILING DATE: 2000-10-23
 PRIOR APPLICATION NUMBER: 60/253,625
 PRIOR FILING DATE: 2000-11-27
 PRIOR APPLICATION NUMBER: 60/257,931
 PRIOR FILING DATE: 2001-12-22
 PRIOR APPLICATION NUMBER: 60/269,308
 PRIOR FILING DATE: 2001-02-16
 NUMBER OF SEQ ID NOS: 14110
 SOFTWARE: Fast-SEQ for Windows Version 4.0
 SEQ ID NO: 10152
 LENGTH: 262
 TYPE: PRT
 ORGANISM: Escherichia coli
 US-09-815-242-10152

Query Match 62.8%; Score 49; DB 9; Length 262;
 Best Local Similarity 60.0%; Pred. No. 1.6;
 Matches 9; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MRYRASALGSDGVRV 15
 Db 170 VRYMANANGPPEGYRV 184

RESULT 12

US-10-282-122A-42969 ; Sequence 42969, Application US/10282122A
 ; Publication No. US20040029129A1
 GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangshu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cheryl
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Forsyth, R.
 ; APPLICANT: Xu, H.
 ; TITLE OF INVENTION: Identification of Escherichia coli
 ; FILE REFERENCE: ELITRA 034A
 ; CURRENT APPLICATION NUMBER: US/10-282,122
 ; CURRENT FILING DATE: 2003-02-20
 ; PRIOR APPLICATION NUMBER: 60/1191,078
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: 60/2016,848
 ; PRIOR FILING DATE: 2000-05-23
 ; PRIOR APPLICATION NUMBER: 60/207,727
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: 60/230,335
 ; PRIOR FILING DATE: 2000-09-06
 ; PRIOR APPLICATION NUMBER: 60/230,347
 ; PRIOR FILING DATE: 2000-09-09
 ; PRIOR APPLICATION NUMBER: 60/242,578
 ; PRIOR FILING DATE: 2000-10-23
 ; PRIOR APPLICATION NUMBER: 60/253,625
 ; PRIOR FILING DATE: 2000-11-27
 ; PRIOR APPLICATION NUMBER: 60/257,931
 ; PRIOR FILING DATE: 2000-12-22
 ; PRIOR APPLICATION NUMBER: 60/267,636
 ; PRIOR FILING DATE: 2001-02-09
 ; PRIOR APPLICATION NUMBER: 60/269,308
 ; PRIOR FILING DATE: 2001-02-16
 ; Remaining Prior Application data removed
 ; NUMBER OF SEQ ID NOS: 78614
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO: 42969
 ; LENGTH: 262
 ; TYPE: PRT
 ; ORGANISM: Escherichia coli
 US-10-282-122A-42969

RESULT 13
 US-10-282-122A-55624
 ; Sequence 55624, Application US/10282122A
 ; Publication No. US20040029129A1
 GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangshu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cheryl
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert

```

APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA 034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIORITY APPLICATION NUMBER: 60/191,078
PRIORITY FILING DATE: 2000-03-21
PRIORITY APPLICATION NUMBER: 60/206,848
PRIORITY FILING DATE: 2000-05-23
PRIORITY APPLICATION NUMBER: 60/207,727
PRIORITY FILING DATE: 2000-05-26
PRIORITY APPLICATION NUMBER: 60/230,335
PRIORITY FILING DATE: 2000-09-06
PRIORITY APPLICATION NUMBER: 60/230,347
PRIORITY FILING DATE: 2000-09-09
PRIORITY APPLICATION NUMBER: 60/242,578
PRIORITY FILING DATE: 2000-10-23
PRIORITY APPLICATION NUMBER: 60/253,625
PRIORITY FILING DATE: 2000-11-27
PRIORITY APPLICATION NUMBER: 60/257,931
PRIORITY FILING DATE: 2000-12-22
PRIORITY APPLICATION NUMBER: 60/267,636
PRIORITY FILING DATE: 2001-02-09
PRIORITY APPLICATION NUMBER: 60/269,308
PRIORITY FILING DATE: 2001-02-16
Remaining prior application data removed - See File Wrapper or PAML.
NUMBER OF SEQ ID Nos: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO: 55624
LENGTH: 262
TYPE: PRT
ORGANISM: Enterobacter cloacae
US-10-282-122A-55624

Query Match          62.8%; Score: 49; DB: 12; Length: 262;
Best Local Similarity 60.0%; Pred. No. 1.6;
Matches 9; Conservative 4; Mismatches 2; Indels 0; Gaps 0

Qy          1 MEYRASALGSDEVRY 15
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Db          170 VRYMANANGPDEVRY 194

RESULT 14
US-10-282-122A-59396
Sequence 59396, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malinos, Cherry
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsken, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Travick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA 034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIORITY APPLICATION NUMBER: 60/191,078
PRIORITY FILING DATE: 2000-03-21
PRIORITY APPLICATION NUMBER: 60/206,848
PRIORITY FILING DATE: 2000-05-23
PRIORITY APPLICATION NUMBER: 60/207,727
PRIORITY FILING DATE: 2000-05-26
PRIORITY APPLICATION NUMBER: 60/230,335

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; PRIOR APPLICATION NUMBER: 60/230,347
 ; PRIOR FILING DATE: 2000-09-09
 ; PRIOR APPLICATION NUMBER: 60/242,578
 ; PRIOR FILING DATE: 2000-10-23
 ; PRIOR APPLICATION NUMBER: 60/253,625
 ; PRIOR FILING DATE: 2000-11-27
 ; PRIOR APPLICATION NUMBER: 60/257,931
 ; PRIOR FILING DATE: 2000-12-22
 ; PRIOR APPLICATION NUMBER: 60/267,636
 ; PRIOR FILING DATE: 2001-02-09
 ; PRIOR APPLICATION NUMBER: 60/269,308
 ; PRIOR FILING DATE: 2001-02-16
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 78614
 ; SOFTWARE: Patentin version 3.1
 ; SEQ ID NO: 59396
 ; LENGTH: 262
 ; TYPE: PRT
 ; ORGANISM: Klebsiella pneumoniae
 ; US-10-282-122A-53396

Query Match 62.8%; Score 49; DB 12; Length 262;
 Best Local Similarity 60.0%; Prod. No. 1.6;
 Matches 9; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MRYRASALGSQDGYRV 15
 Db 170 VRYMANAMGPEGYRV 184

Search completed: March 30, 2004, 15:21:47
 Job time: 2.19245 secs

RESULT 15
 US-10-282-122A-74993
 ; Sequence 74993, Application US/10/282122A
 ; GENERAL INFORMATION
 ; Publication No. US20040029129A1
 ; APPLICANT: Wang, Liangsu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cheryl
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Forsyth, R.
 ; APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 FILE REFERENCE: ELTRA_034A
 CURRENT APPLICATION NUMBER: US/10/282,122A
 CURRENT FILING DATE: 2003-02-20
 PRIOR APPLICATION NUMBER: 60/191,078
 PRIOR FILING DATE: 2000-03-21
 PRIOR APPLICATION NUMBER: 60/206,848
 PRIOR FILING DATE: 2000-05-23
 PRIOR APPLICATION NUMBER: 60/207,727
 PRIOR FILING DATE: 2000-05-26
 PRIOR APPLICATION NUMBER: 60/230,335
 PRIOR FILING DATE: 2000-09-06
 PRIOR APPLICATION NUMBER: 60/230,347
 PRIOR FILING DATE: 2000-09-09
 PRIOR APPLICATION NUMBER: 60/242,578
 PRIOR FILING DATE: 2000-10-23
 PRIOR APPLICATION NUMBER: 60/253,625
 PRIOR FILING DATE: 2000-11-27
 PRIOR APPLICATION NUMBER: 60/257,931
 PRIOR FILING DATE: 2000-12-22
 PRIOR APPLICATION NUMBER: 60/267,636
 PRIOR APPLICATION NUMBER: 2001-02-09
 PRIOR FILING DATE: 2001-02-16
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 78614

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protein - protein search, using sw model

on: March 30, 2004, 15:11:54 ; Search time 77.8075 Seconds
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title: US-09-893-371A-1
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 total number of hits satisfying chosen parameters: 1065169
 minimum DB seq length: 0
 maximum DB seq length: 2000000000
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 Maximum Match 100%
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 2: /cgns_6/prodata/2/pubpaas/FCT_NEWPUB.pep:
 3: /cgns_6/prodata/2/pubpaas/US06_PUBCOMB.pep:
 4: /cgns_6/prodata/2/pubpaas/US05_PUBCOMB.pep:
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 * Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	5398	100.0	1044	14	US-10-287-216-1
2	2119	39.3	1078	15	US-10-14-294-24
3	1756	32.5	1017	15	US-10-369-493-5084
4	1745	32.3	1013	12	US-10-092-900A-230
5	1745	32.3	1013	12	US-10-33-412-128
6	1732	32.1	688	15	US-10-080-334-154
7	1730.5	32.1	1018	12	US-10-33-417-126
8	1730.5	32.1	1018	12	US-10-236-417-154
9	1730.5	32.1	1098	15	US-10-104-047-3280
10	1722.5	31.9	1098	15	US-10-20-481-2
11	1714.5	31.8	1098	12	US-10-33-412-26
12	1709.5	31.7	1096	12	US-10-23-417-66
13	1709.5	31.7	1096	12	US-10-080-334-155
14	1594.5	670	32.1	15	US-10-369-493-5164
15	1564	29.0	1100	15	US-10-369-493-5164

Best Local Similarity 100.0%; DB 14; Length 1044;
 Matches 1044; Conservative 0; Missmatches 0; Indels 0; Gaps 0

ALIGNMENTS

RESULT 1
 US-10-287-216-1
 / Sequence 1, Application US/10287216
 / Publication No. US20030186375A1
 / GENERAL INFORMATION:
 / APPLICANT: de Lanerolle, Primal
 / APPLICANT: No. US20030186375A1
 / APPLICANT: Grzegorz
 / APPLICANT: Pestic-Dragovich, Lidiya
 / APPLICANT: Stojiljkovic, Ljuba
 / APPLICANT: Hozak, Pavel
 / TITLE OF INVENTION: Nuclear Myosin I B with A 16 Amino Acid N-Terminal Extension
 / NUMBER OF SEQ ID NOS: 6
 / SOFTWARE: PatentIn Ver. 2.1
 / SEQ ID NO 1
 / LENGTH: 1044
 / TYPE: PRT
 / ORGANISM: Artificial Sequence
 / FEATURE: OTHER INFORMATION: Description of Artificial Sequence:Nuclear Myosin
 / OTHER INFORMATION: 1 beta
 / US-10-287-216-1

Query Match 100.0%; Score 5398; DB 14; Length 1044;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1044; Conservative 0; Missmatches 0; Indels 0; Gaps 0

QY 1 MYRASALGSDGVRTMESAFTENLRRRFRENLITY 60
 Db 1 MYRASALGSDGVRTMESAFTENLRRRFRENLITY 60

GENERAL INFORMATION: ; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 61 IGPVILVSYNPYRDLQIYSPQHMEYRGTSFYEVYPHLFAVADTYVRAILRTERRDQAYMIS 120
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 121 GESAGKTEATKRLQYAEETCPAPERGAVRDLQSNPVLAEAGNATKLENDNSSRFG 180
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 181 KYMDVQDFKGAPGGHILSYLLEKSRVYHONGHERNTHYFOLLEGEEETTRIGLER 240
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 241 NPQSYLILYVKGOCAKVSSINDSKWYMRKALSVIDTFEDVEYLISIVASVTHLGNHF 300
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 301 AADEDSNQVTTENOLKYLTRLLGVETTLREALTHRKIIAKGEELISPLNLEQAAYARD 360
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 361 ALAKAVYSSRTFTFWLVRKINRSLASKDAESPSPRSSTTVLGLDLYGFEVFOHNSFEQFCIN 420
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 421 YCNEKLQOOLFIELTLKSQEEYEAEGLAWEQYFNNKIIICDLYKEVFKPGTLISILDEECI 480
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 481 REPEATDITLEFLEDTYKPHPHLITKLADOKTRKLDRGEFLRHYAGEVTYSVTGFL 540
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 541 DKNNDLRLTRNLKETMCSSMNPIMAQCFDKSELSDKRPEVATOFKMSLLOVEILRSKE 600
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 601 PAYIRCKPNDAKQPGFDEVILRHQYKYLGLEMENLVRRAFGAYRKYEAFLORYKSLC 660
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 661 PETWPMAGRPQDGAVYLVRHIGYKPEEYKMGRTKIFIRFPKTLFATEDSLVEVROSLAT 720
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 721 KIOQAWGFGHWWQKFLVXRSACIQCQSWRGTGKRAKGRKWAATTRIJRGFLIRHS 780
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 781 PRCPENAFPLDVRASFLNLQRLPQNPVLDTSWTPPAPLARESELRELCKMKNWVKY 840
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 901 QYAVPYVKYDRGKYKPRPQLLTPSVAVIVEDAKYKQRIDYANLTGIVSSLSDFLFLV 960
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 961 HYQREDNQKQGIVVVLQSDHVTETLTKPALSADRVNNTINQGSIITPAGGPGRDGTLIDFTS 1020
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 1021 GSELLITKAKGHLLAVVAPRINSR 1044
; APPLICANT: Origene Technologies Inc
; TITLE OF INVENTION: 3U 103 RI ; FILE REFERENCE: 3U 103 RI
; CURRENT APPLICATION NUMBER: US/10/144,194A ; CURRENT FILING DATE: 2002-06-12
; NUMBER OF SEQ ID NOS: 114 ; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 24 ; LENGTH: 1078 ;
; TYPE: PRT ; ORGANISM: Homo sapiens
; US-10-144-194A-24

Query 1021 GSELLITKAKGHLLAVVAPRINSR 1044
; Sequence 24, Application US/10/144,194A
; Publication No. US2003015809A1

RESULT 2
US-10-144-194A-24

Qy	821 LREASPLLRELCMRNMW --KYCRSISIPEWKQQLQQKAVAYASEIFKGKDDNYNPOSVPLF 877	Qy	383 ASKDAESPWRSTIVLGLDIYGPFEVFOHNSFEOCINYCNEKLIQQLFIELTLKSEQEY 442
Db	848 FLDSTH--KEIKRIFHLWRCKKRYQFTDQQLTYEEKLEASELLKDQKALYPSVGQF 905	Db	371 SVQN--SRSYTSKSHIVGVDIYGPFEVFOHNSFEOCINYCNEKLIQQLFIELTLKSEQEY 428
Qy	878 ISTRIGTEISP---RVLQLSGSEPIQAVAVPKYDRKGKYPERPROLLITPSAVVIE- 932	Qy	443 EARGIAWEPOYOFNKKIICDLYVEEKFKGKISILDECLRGEATDITPLEKEDTVKHP 502
Db	906 QGAYL--EINKNPKYKQKLDAAIEEKIIIAEVVVKINRANGKTSRIFLTNNNNLLAQ 962	Db	429 EREGIKWVKLEYFNRKVICDVLVEPRTGIGSILDEACASIGNYTVKVFGLDCKLKSHK 488
Qy	933 -DAKYKQRIYANLIGSISVSSLSLDFLVLYQV-EDNKQGDVVLQSDRVEIETIK--T 987	Qy	503 HFLTHLKAQDKTRKSLDREBFLRLLHAGVTVSYTGFLDKNDLFLRNLKETMCSMNP1 562
Db	963 KSGQIKSEPVHDFVTKVMSQNDGFRAVHLKEGSEAASKGDEFSSDLEIEMATKLVYR 1022	Db	489 HYTSRNL--KOSDKSMGPFEEFKITHAGVTVSYGMFDKNDKONTFODKLRLYHSKNRL 546
Qy	988 ALSADEVN-NINI-----NGSSTIAFGPGRDGIIDFTGSELLITKAKNHLAV 1036	Qy	563 MAQCP---DRSELSDDKKRBPETVATQFKNSILLQLVIEILRSKEPAPYTRCKPNDAKQPGRFD 619
Db	1023 TLSQTQKLNTEISDFLVLFQFRQDKWCVKF1QGNQKNGSVP-----TCKRKRNRLIE 1074	Db	547 VKSLFPDGSKSMATVNRPPTAGLKFKNMSLVLQKLAQEPHYTRCKPNEEKNNSNTFD 606
Qy	1037 VA 1038	Qy	620 EVLIRHQVKYLGMENLRYVRAGFAYRKYEAFLQRYKSLCPETWPMWAGR-----QD 673
Db	1075 VA 1076	Db	607 LERYEHQVRYGLBENVRVRAFHRMPYDRFVNRYKLICASTWP---NPRRGQQLKD 662
Qy	672 RY-----RMLAVRKIGAYRYKIKSYIWO-----747	Qy	674 GVAVLVRHIGYKPEEYKMRCTKIPTRFPKTLFATEDSLEVRVRSLATKIQAAARGFHWRQ 733
Db	663 SCMQDILLESAGL-AQDVCQERTKLFIRSPQTVPFLELRTEQLDNVITFLQKMYTRGVQORE 721	Db	794 RASFPLNLRLQPLPRNVLDTS---WPTPPPALREASELLRELCKMKNWYKCRSIS---P 846
Qy	734 KFLRKVRSACICQSWWRGTLGRKRAKREWAAQTIRRLRGFLIRHSPRCPENAFFLDHV 793	Qy	748 ---LINAFRDV-RMRDLGKSIRWAPPVLVAGFSVSLRVMHOR---WRAATILARMPP 799
Db	722 RY-----RMLAVRKIGAYRYKIKSYIWO-----747	Db	847 EWKQOLQOQAVASEFEKGKDN-----1POSVPLFISTRIGPEEISPVYQSLG 896
Qy	797 SEP-----IQYAVPVVYKDRKGKYPKPRQLLTPSAVIVEDAK--VVKOBIDYANLTGISY 950	Db	800 HLRASLFPQTAIAFFLNNEKENNGYTRMRGDLTSQQRLELPITVSTYHDGIGQALRQ-- 857
Db	858 SHPFERKVLFSTYVQKENF-KFNKSSURVLIVTDREFAKLENKKFLIKEIPLQSIISRY 916	Qy	951 SSSLPSLFLYLVQRED-----NKQKADVVLSQDHVIE 982
Db	917 CAESNGLFVTHVGNDIVGCCARTKNEERVGEMIGTLLAHYDKITMRRSPVLIQS-AVVC 975	Qy	983 TL---TKTALSAEYNN 996
Qy	976 TLGSKTRTRVFDENN 992	Db	RESULT 4
Db	12 GVEDLVLSTIDLKV-YQNLQLRFKGRTTYTCGEVLLAVNPYRQLGYEKSTVDOYKG 70	US-10-094-9004-230	Sequence 230, Application US/100949004
Qy	88 VSFEVPPHFAVADTVYRAFTRDQAMWISGSGAGKTEATRLLQYAFCTPAPER 147	Db	Publication No. US2004004382A1
Db	71 REIYERAPHVFAIADAAYSMKREFGDSCLIVSGSGAKTETSKLIMCYLAATNVROQ 130	Qy	GENERAL INFORMATION:
Qy	148 G-GAVDRDQIQSNPVLEAFGNKATLIRNNDISRFEGKYMDFQDFKGKAPYGGHILSYLFK 205	Db	APPLICANT: Padigaru, Muralidhara
Db	131 GEIERYKVNLLRSNCLEAFGCAKTRNDNISRFEGKYMINFYDGDPPGNTNLYLJK 190	Qy	APPLICANT: Spyrek, Kimberly A.
Qy	206 SRYVTHONHGERNFHVTYQLEGGEEFTLRLIGLENPQSTLYLGQACKYSSNDKSW 265	Db	APPLICANT: Shany, Suresh G.
Db	191 SRVVRQGEERNFHTYQQLNGDDGLLRQGLTQAKQYFLNGQSHKVASINDSRF 250	Qy	APPLICANT: Taupier Jr., Raymond J.
Qy	266 KVMRKAL-SVDFTEDEVILSISVAVLQYQHNTFHAADDDSN--AQVTTENQKYLTH 3222	Db	APPLICANT: Pena, Carol E.A.
Db	251 AEVQZ2LRSIHTFDKDVESMSWVAGLHIGNVERIDGENSSGAVHIAKQALQNAHC 310	Qy	APPLICANT: Li, Li
Qy	323 LGVEGSTLIREALTHRKLIAKEELLSPLNLQEAAYTADAKAVYSRTTWLYKINRSL 382	Db	APPLICANT: Zerhusen, Bryan D.
Db	311 LNVTPDELAKSLSQVVAHSDIVRKQHDVNAAYTTRDALKALYERLISWMSVKVNEAI 370	Qy	APPLICANT: Gusev, Vladimir Y.
Qy	311 LNVTPDELAKSLSQVVAHSDIVRKQHDVNAAYTTRDALKALYERLISWMSVKVNEAI 370	Db	APPLICANT: Ji, Weizhen
Qy	311 LNVTPDELAKSLSQVVAHSDIVRKQHDVNAAYTTRDALKALYERLISWMSVKVNEAI 370	Qy	APPLICANT: Gorman, Linda
Qy	311 LNVTPDELAKSLSQVVAHSDIVRKQHDVNAAYTTRDALKALYERLISWMSVKVNEAI 370	Db	APPLICANT: Miller, Charles E.
Qy	311 LNVTPDELAKSLSQVVAHSDIVRKQHDVNAAYTTRDALKALYERLISWMSVKVNEAI 370	Qy	APPLICANT: Kekuta, Ramesh
Qy	311 LNVTPDELAKSLSQVVAHSDIVRKQHDVNAAYTTRDALKALYERLISWMSVKVNEAI 370	Db	APPLICANT: Patturajan, Meera
Qy	311 LNVTPDELAKSLSQVVAHSDIVRKQHDVNAAYTTRDALKALYERLISWMSVKVNEAI 370	Qy	APPLICANT: Gangoli, Esha A.
Qy	311 LNVTPDELAKSLSQVVAHSDIVRKQHDVNAAYTTRDALKALYERLISWMSVKVNEAI 370	Db	APPLICANT: Vernet, Corine A. M.
Qy	311 LNVTPDELAKSLSQVVAHSDIVRKQHDVNAAYTTRDALKALYERLISWMSVKVNEAI 370	Qy	APPLICANT: Guo, Xiaojaia Sasha
Qy	311 LNVTPDELAKSLSQVVAHSDIVRKQHDVNAAYTTRDALKALYERLISWMSVKVNEAI 370	Db	APPLICANT: Tchernev, Velizar T.
Qy	311 LNVTPDELAKSLSQVVAHSDIVRKQHDVNAAYTTRDALKALYERLISWMSVKVNEAI 370	Qy	APPLICANT: Fernandes, Elmira R.

APPLICANT: Casman, Stacie J. 380 RSLASKDAESPWRSTIVGLIDTGFPEVFOHNSFFQFCINYCNEKIQQLPTELTURSEQ 439
 APPLICANT: Malyanmar, Uriel M. ;
 APPLICANT: Gerlach, Valerie ;
 APPLICANT: Liu, Yi ;
 APPLICANT: Anderson, David W. ;
 APPLICANT: Spadera, Steven K. ;
 APPLICANT: Catterton, Elina ;
 APPLICANT: Leite, Mario W. ;
 APPLICANT: Zhong, Haihong ;
 APPLICANT: Alsobrook, John P. ;
 APPLICANT: Rieger, Denise M. ;
 APPLICANT: Rieger, Daniel K. ;
 APPLICANT: Burgess, Catherine E. ;
 TITLE OF INVENTION: No. US20040043382 A1
 FILE REFERENCE: 21402-290C
 CURRENT FILING DATE: 2002-03-07
 PRIOR APPLICATION NUMBER: USNN 60/12-03
 PRIOR FILING DATE: 2001-03-08
 PRIOR APPLICATION NUMBER: USNN 60/274,322
 PRIOR FILING DATE: 2001-04-13
 PRIOR APPLICATION NUMBER: USNN 60/338,092
 PRIOR FILING DATE: 2001-12-03
 PRIOR APPLICATION NUMBER: USNN 60/274,281
 PRIOR FILING DATE: 2001-03-08
 PRIOR APPLICATION NUMBER: USNN 60/274,191
 PRIOR FILING DATE: 2001-03-08
 PRIOR APPLICATION NUMBER: USNN 60/325,681
 PRIOR FILING DATE: 2001-09-27
 PRIOR APPLICATION NUMBER: USNN 60/304,354
 PRIOR FILING DATE: 2001-07-10
 PRIOR APPLICATION NUMBER: USNN 60/279,995
 PRIOR FILING DATE: 2001-03-30
 PRIOR FILING DATE: 2001-05-31
 PRIOR APPLICATION NUMBER: USNN 60/287,424
 PRIOR FILING DATE: 2001-04-10
 Remaining Prior Application data removed - See File Wrapper or PALM.
 NUMBER OF SEQ ID NCS: 768
 SEQ ID NO: 230
 LENGTH: 1013
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-092-90A-230

Query Match 32.3% Score 1745; DB 12; Length 1013;

Best Local Similarity 41.7%; Pred. No. 2..6e-149; Length 1013;
 Matches 403; Conservative 155; Mismatches 339; Indels 70; Gaps 21;

RESULT 5
 US-10-336-472-128
 / Sequence 128, Application US/10336472
 / Publication No. US20040043329A1
 / GENERAL INFORMATION:
 / APPLICANT: Anderson, David W. ;
 / APPLICANT: Baungartner, Jason C. ;
 / APPLICANT: Burgess, Catherine E. ;
 / APPLICANT: Casman, Stacie J. ;
 / APPLICANT: Chant, John S. ;
 / APPLICANT: Berghs, Constance ;
 / APPLICANT: Edinger, Shlonit R. ;
 / APPLICANT: Ellerman, Karen ;
 / APPLICANT: Furuk, Katarzyna ;
 / APPLICANT: Gerlach, Valerie ;
 / APPLICANT: Gilbert, Jennifer A. ;
 / APPLICANT: Gunther, Brik ;
 / APPLICANT: Gozman, Linda ;
 / APPLICANT: Guo, Xiaojia Sasha ;
 / APPLICANT: Li, Weizhen ;
 / APPLICANT: Liu, Xiaohong ;
 / APPLICANT: Millet, Charles E. ;
 / APPLICANT: Millet, Isabelle ;
 / APPLICANT: Padigaru, Muralidhara ;
 / APPLICANT: Paturajan, Meera ;

Qy 368 SVMEPGRGRPPRDGKPPRDPQFCINYCNEKIQQLPTELTURSEQ 427
 Db 368 BMEPGRGRPPRDGKPPRDPQFCINYCNEKIQQLPTELTURSEQ 427
 Qy 440 EYEAECTIAWEFPQYNNKICLIVLBEFKFGIILSILDEBCURGEATDLFLEKEDTVK 499
 Db 428 EYEREGITWOSVEYNNATIVDLEBPHRGILAVLDEACSSAGTTDRFLQTLMHHR 487
 500 PHPHFLTHKLADQKTRKSLORG-EFLFLHAGEVTYSGFLKNDLFFRNKEDMCS 558
 Qy 488 BHLHXTSRQLC-PTDKTMEGRDPIKHYAGDVYTSVEGFIDKRDFFDCKRILYNS 545
 559 MNPMIAQCF----DKSELDKCKRPTVATOKMSILQVLEILRSKEPAYFRCIKENDAK 613
 Db 546 TDPTGRAMWPDPQDQDTEVT-KRPTAGTLFKNSMVALYENLAKKEPFVRCIKENEDK 603
 Qy 614 QPGRFEDEVLRHOVKTGLMENLRVTRAGFAYRKKYEAFLORYKSLCPETWP-MWAGRQ 672
 Db 604 VAGKLDENHCRHQVAVLGLENVTRAGFASRQPSRELLRYKMTCTYWPNHLLGSDK 663
 673 DGAVAVLVRHLYKPEEYKMRGRTKIFTRPKTLFATEDSLEVRROSLATKIQAAWGFHWR 732
 Db 664 AAVSALLEQHQLQ-GDVAVGHSKLFRRSPRLTVTEQS-----R 701
 Qy 733 QKFLRVRKRSATCIOQSWRGTGLGRRAKRAKWAQCTIRRLRGFLRHSPRCOPENAFFLDH 792
 Db 702 ARLIP:--IVLILQKAWGRTLARWR-CRRRLRATYTMWR----RHKVRA----RHLAE 749
 Qy 793 VRAFSFLINRQLPMLDTSWPTPPALREASELLRELCMKNMVWYKCRSISPMWKQQL 852
 Db 750 LQRFF-QAARQPPYGRDLWVLPPLAVLQFQDTCHALFCRMARQLVNPNTPPSDMPQI 807
 Qy 853 QKQAVASEIFKGKQNY--POSVPRFLISTRLGTEBISPRVLSQ-----GSBPIQYA 903
 Db 808 KAKVAMGALQGLRQDWGCRRAWADYLSATDNPTASSIFAQRTKLQDKDGFRAVLFS 867
 Qy 904 VPVVKYDRKGTYKPRROLLTPTSAVIVVE---DARKVKORDIYANTLGISVSSLSDLSFVL 960
 Db 868 SHVRVYNR-FHKIRKALLTDQHLYKLDDPQRQYRMRAVPLEATVGLSTSGGQQLVVL 926
 Qy 961 HVQREDN 967
 Db 927 HARGQDD 933

; PRIOR FILING DATE: 2001-09-17
 ; PRIOR APPLICATION NUMBER: US60/322,817
 ; PRIOR FILING DATE: 2001-09-17
 ; PRIOR APPLICATION NUMBER: US60/322,816
 ; PRIOR FILING DATE: 2001-09-17
 ; PRIOR APPLICATION NUMBER: US60/323,519
 ; REMAINING PRIOR APPLICATION DATA REMOVED - SEE FILE WRAPPER OR PALM.
 ; NUMBER OF SEQ ID NOS: 341
 ; SOFTWARE: Custom
 ; SEQ ID NO: 152
 ; LENGTH: 1013
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-236-417-152

Query Match 32.3%; Score 1745; DB 12; Length 1013;
 Best Local Similarity 41.7%; Pred. No. 2.6e-149;
 Matches 403; Conservative 155; Mismatches 339; Indels 70; Gaps 21;

Qy 28 GYQDFVILENTSEAAFIENLRRRFENLITYIGPVLYSVPNYPDQIYTSRQHMYRQ 87
 Db 10 GKPDFVILDQVTE-DEMNRNQLRFERGRITYIGSVLVSNPYQELPLGPEAARYQG 68

Qy 88 VSFYEYVPPHLEAVADTYVRLRTERDQAAMISGESEAGKTEATKRLLQYAFETPAPER 147
 Db 69 RELYEEPVPHLYAVANPAKXKAMKHSRDPDTCITISGEGAKTEASGHIMYQIAVTNPSQR 128

Qy 148 GGA--VDRDLOSNPVLEAFGNAKTLRNDNSRFGKMDVQDFEGKAPVGHISLSSLEK 205
 Db 129 AEVERTKDVLLKSTCVLAEFGNARVNHNNSRFGKMDVNFDEFGDPGIGHISLSSLEK 188

Qy 206 SRVVFHQNGERNHVFYQQLLEGEEFTLRLGLERNPQSYLYVKGQCAKVSINDKSDW 265
 Db 189 SRLVKOHVGERNFHAFYQQLRGSEDQKHEHLERNPAVNFTHOAGLAM-TVSDQSH 247

Qy 266 KMRKALSVIDFTEDEVLDLISIVASVLYHIGNTNFAADEDSNAQ---YTTEENOLKYL 320
 Db 248 QAVTEANRVIQTSPEEVSVRILAAIHLNTEFETEVEGGLQKLAGVAAEALVHDVA 307

Qy 321 RLLGVGEGTIREALTHRKKIAKGEELSP-LNLEQAYARDALAKAVYSRFTFLVTKN 379
 Db 308 ELTATPRDLVRSLLARTVASGRELTKHTAAEASYARDACATAVYQRLFENVNRRN 367

Qy 380 RSLASKDAPESPWRWSRSTVVLGLLDIYGEVFOHNSFFQFCINYCNCEKQLQOQFIETLTKSQ 439
 Db 368 SVMEPGRGDPRRGKDTVIGVLDIYGEVFPVNSFFQFCINYCNCEKQLQOQFILQLKQQ 427

Qy 440 BEYERGIGAMEPQYNNKIIKCDLYVEKFKGIIISLDEECLRGEATDITFLEKEDTYK 499
 Db 428 BEYERGIGTWOVSFVNNTIVDVERPHRGTLAVLDEACSGATITDTRFLQTLDMHHR 487

Qy 500 PHPHFLTHKLADQKTRKSLDRG-EFRLLHYAGEVTYTSVGFIDKNDLFLPRNLKETMCS 558
 Db 488 HHLHYSRQLC--PTDTRMEGRDFRKHYAGDVTYSVEGFDQCRDFFKLRLYNS 545

Qy 559 MNPIIMAQC----DXSELSDKKRPTVTAQEFKMSLQLQVBLRSKEPAVTRCKPNDAK 613
 Db 546 TDPTLRAMWPQGQD1TEV--KRPLTAGTFLFKNSWALASKEPFVRC1KPNEDK 603

Qy 614 QPGRFDEVFLRHQKVYLMLVRVAGFAYRKYEAFLQRYKSLCPETWP-MWAGRPQ 672
 Db 604 VAGKLDENHCRHQVAVYQGLENVRVRAFASRQPSRFLLRYKMTCTYTPNHLGSDK 663

Qy 673 DGVAVLYRHLGKYPPEEYKMGRTKIEFRPKTLFATEDSLEVRQSLATKIQAAWRGEHWR 732
 Db 664 AAVSALLEQHGLQ-GDVAFGHSKLFRSPRLTVEQS-----R 701

Qy 733 QKFLRVRSAICIOSWQRGTGKAKRKAQATIRRLRGFLRHSRPROPENAFPLDH 792
 Db 702 ARLIP1--IVVLLQKAWRGLTARWR-CRRLFAITYTMWFR---RHKYRA----HIAE 749

Qy 793 VRSFLINRRLRQLPRLPNVLDTSWTPPDLARESELLRELCMKNNWYKCRSISPEWKOQL 852

Db 750 LQRRP--QAARQPPHYGRDLVWPLPAVLOQFQDTCITRGLTEISPRVLOSH-----GSPIOYA 903
 Qy 853 QOKAYASETIFKGKKNY--PQSVPRLFISTRGLTEISPRVLOSH-----GSPIOYA 903
 Db 808 KAKVAMGALQGLRQDGCRRAWDYLSSATDNETASSLFAQRKTLDQDGFAVLFS 867

Qy 904 VPVYKDRKGKYPPEQLLTPSAVIVE--DAVKVKORDIYANLTGIVSISLSSLSFVY 960
 Db 868 SHVRVNR-FHKIRNRAHLTQDHLYKLDPDRQTRVMRAVPLAETGLSVTSGGQLQVYL 926

Qy 961 HVQREDN 967
 Db 927 HARGQDD 933

RESULT 7

US-10-080-334-164

Sequence 164, Application US/10080334

GENERAL INFORMATION:

Pena, Carol E. A. ; APPLICANT: Shinkets, Richard A

Li, Li ; APPLICANT: Sheony, Suresh G

Kekuda, Ramesh ; APPLICANT: Spyttek, Kimberly A.

Verriet, Corine A. M. ; APPLICANT: Mulyankat, Uriel M.

Guo, Xiaojia ; APPLICANT: Gusev, Vladimir Y

Casman, Stacie J ; APPLICANT: Boilock, Ferenc L.

Furtak, Katarzyna Tchernyev, Velizar T ; APPLICANT: Patterson, Meera

Gangolli, Esha A. ; APPLICANT: Padigaru, Murali Dharma

Liu, Xiaochong ; APPLICANT: Baumgartner, Jason C.

Spaderach, Valerie ; APPLICANT: Spaderna, Steven K

Zerhusen, Bryan D ; APPLICANT: TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of Encoding Them and Methods of Using the Same

FILE REFERENCE: 21402-275

CURRENT APPLICATION NUMBER: US/10/080,334

PRIOR APPLICATION NUMBER: 60/270,523

PRIOR FILING DATE: 2001-02-21

PRIOR APPLICATION NUMBER: 60/322,712

PRIOR FILING DATE: 2001-09-17

PRIOR APPLICATION NUMBER: 60/311,980

PRIOR FILING DATE: 2001-08-13

PRIOR APPLICATION NUMBER: 60/330,307

PRIOR FILING DATE: 2001-10-18

PRIOR APPLICATION NUMBER: 60/278,796

PRIOR FILING DATE: 2001-03-26

PRIOR APPLICATION NUMBER: 60/281,521

PRIOR FILING DATE: 2001-04-04

PRIOR APPLICATION NUMBER: 60/274,295

PRIOR FILING DATE: 2001-03-16

PRIOR APPLICATION NUMBER: 60/311,595

PRIOR FILING DATE: 2001-08-10

PRIOR APPLICATION NUMBER: 60/270,220

PRIOR FILING DATE: 2001-02-21

PRIOR APPLICATION NUMBER: 60/274,295

PRIOR FILING DATE: 2001-03-08

PRIOR FILING DATE: 2001-09-10

PRIOR APPLICATION NUMBER: 60/286,548

PRIOR FILING DATE: 2001-04-25

PRIOR APPLICATION NUMBER: 60/291,765

PRIOR FILING DATE: 2001-05-17
 PRIOR APPLICATION NUMBER: 60/270,797
 PRIOR FILING DATE: 2001-02-23
 PRIOR APPLICATION NUMBER: 60/276,400
 PRIOR FILING DATE: 2001-03-16
 PRIOR APPLICATION NUMBER: 60/270,810
 PRIOR FILING DATE: 2001-02-23
 NUMBER OF SEQ ID NOS: 388
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 164
 LENGTH: 688
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-080-334-164

Query Match 32.1%; Score 1732; DB 15; Length 688;
 Best Local Similarity 50.0%; Pred. No. 2e-148; Mismatches 132; Indels 30; Gaps 10;
 Matches 349; Conservative 187; APPLICANT: Andersson, David W.
 APPLICANT: Ballinger, Robert A.
 APPLICANT: Baumgartner, Jason C.
 APPLICANT: Burens, Catherine E.
 APPLICANT: Casman, Stacie J.
 APPLICANT: Chant, John S.
 APPLICANT: Berhns, Constance
 APPLICANT: Gancioli, Esha A.
 APPLICANT: Edinger, Shlonic R.
 APPLICANT: Ellerman, Karen
 APPLICANT: Furuk, Katarzyna
 APPLICANT: Gerlich, Valerie
 APPLICANT: Gilbert, Jennifer A.
 APPLICANT: Gunther, Erik
 APPLICANT: Gordan, Linda
 APPLICANT: Guo, Xiaojia Sasha
 APPLICANT: Ji, Weizhen
 APPLICANT: Li, Li
 APPLICANT: Liu, Xiaohong
 APPLICANT: Millet, Isabelle
 APPLICANT: Padigaru, Muralidhara
 APPLICANT: Patterson, Meera
 APPLICANT: Rastelli, Luca
 APPLICANT: Macdougall, John R.
 APPLICANT: Mishra, Vishnu
 APPLICANT: Persson, Carol E.A.
 APPLICANT: Spaderna, Steven K.
 APPLICANT: Shimkets, Richard A.
 APPLICANT: Smithson, Glenda
 APPLICANT: Spytak, Kimberly A.
 APPLICANT: Stone, David J.
 APPLICANT: Shenvoy, Suresh G.
 APPLICANT: Ort, Tatiana
 APPLICANT: Taupier Jr, Raymond J.
 APPLICANT: Tcherny, Velizar T.
 APPLICANT: Vernet, Corine A.M.
 APPLICANT: Wolenc, Adam R.
 APPLICANT: Zerhusen, Bryan D.
 APPLICANT: Zhong, Mei
 TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
 FILE REFERENCE: 21402-533C
 CURRENT APPLICATION NUMBER: US/10/336,472
 CURRENT FILING DATE: 2003-01-03
 PRIOR APPLICATION NUMBER: 09/746,491
 PRIOR FILING DATE: 2000-12-20
 PRIOR APPLICATION NUMBER: 10/005,041
 PRIOR FILING DATE: 2001-12-04
 PRIOR APPLICATION NUMBER: 10/023,681
 PRIOR FILING DATE: 2001-12-19
 PRIOR APPLICATION NUMBER: 10/024,212
 PRIOR FILING DATE: 2001-12-18
 PRIOR APPLICATION NUMBER: 10/055,569
 PRIOR FILING DATE: 2001-10-26
 PRIOR APPLICATION NUMBER: 10/080,334
 PRIOR FILING DATE: 2002-02-21
 PRIOR APPLICATION NUMBER: 10/092,900
 PRIOR FILING DATE: 2002-03-07
 PRIOR APPLICATION NUMBER: 10/135,826
 PRIOR FILING DATE: 2002-05-01
 PRIOR APPLICATION NUMBER: 10/236,417
 PRIOR FILING DATE: 2002-09-06
 PRIOR FILING DATE: 2002-01-04
 Remaining Prior Application data removed - See File Wrapper or PAM.
 NUMBER OF SEQ ID NOS: 230
 SOFTWARE: CuraSeqList version 0.1
 SEQ ID NO: 126
 LENGTH: 1018
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-336-472-126

RESULT 8
 US-10-336-472-126
 Sequence 1.26, Application US/10336472
 Publication No. US20040043929A1
 GENERAL INFORMATION:

RESULT 9
 US-10-236-417-154
 Sequence 154, Application US/10236417
 Publication No. US0040048256A1
 GENERAL INFORMATION:
 ; APPLICANT: Agree et al.
 ; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
 ; FILE REFERENCE: 21404-442C
 ; CURRENT FILING DATE: 2003-01-06
 ; PRIOR APPLICATION NUMBER: US60/318,120
 ; PRIOR FILING DATE: 2001-09-01
 ; PRIOR APPLICATION NUMBER: US60/318,417
 ; PRIOR FILING DATE: 2003-01-06
 ; PRIOR APPLICATION NUMBER: US60/318,430
 ; PRIOR FILING DATE: 2001-09-10
 ; PRIOR APPLICATION NUMBER: US60/322,781
 ; PRIOR FILING DATE: 2001-09-17
 ; PRIOR APPLICATION NUMBER: US60/318,184
 ; PRIOR FILING DATE: 2001-09-07
 ; PRIOR APPLICATION NUMBER: US60/361,663
 ; PRIOR FILING DATE: 2002-03-05
 ; PRIOR APPLICATION NUMBER: US60/396,412
 ; PRIOR FILING DATE: 2002-07-17
 ; PRIOR APPLICATION NUMBER: US60/322,636
 ; PRIOR FILING DATE: 2001-09-17
 ; PRIOR APPLICATION NUMBER: US60/322,817
 ; PRIOR FILING DATE: 2001-09-17
 ; PRIOR APPLICATION NUMBER: US60/322,816
 ; PRIOR FILING DATE: 2001-09-17
 ; PRIOR APPLICATION NUMBER: US60/323,519
 ; PRIOR FILING DATE: 2001-09-19
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 341
 ; SOFTWARE: Custom
 ; SEQ ID NO: 154
 ; LENGTH: 1018
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-236-417-154
 Query Match Best Local Similarity 32.1%; Score 1730.5; DB 12; Length 1018;
 Matches 403; Conservative 155; Mismatches 340; Indels 73; Gaps 22;
 Qy 28 GVQDFVILENTSEAFIENLRRRFENLITYTIGPVLYSNYPYRDIQIYSRQHMRYRG 87
 Db 10 GKPDFVLDQVTIME-DEMRLNQLRFERKGRTITYIGEVLYSNYPQELPYCPEAITYRG 68
 Qy 88 VSEFEYPPHFLFAVADTYVRALETRDQAETRLLQYAFETCPAPER 147
 Db 69 RELYERPHLYAVANADYKAMYRSRDTCTIVSGEAGKTEASXKIMQYAAVINTPSQR 128
 Qy 148 GGA- -VRDLIQSNPYLEAFGNAKTURNDNSRFGKYMDFQDFKGAPVGSHLTSVLEK 205
 Db 129 AEVYERTKVLKSTCVLEAFGNARTNRHNSRFGKYMDFQDFKGDPIGERIHSVLEL 188
 Qy 206 SRVHQHNGERNHFEVYQQLLPGGEETTRLLRGLENRNPQSYLYVKGOCAKV- --SSI-ND 261
 Db 189 SRLVKQHGVNHAFAQOLLRGSEDKOLHELHLERNPAVNTFHAGLNMNTVHSALDSD 248
 Qy 189 SRLVKQHGVENFHAYQQLRGSEDQLEHHLERNPAVNTFHAGLNMNTVHSALDSD 248
 Db 262 KSDWKUMRKAISVLDFTEDVEEDLISIVASVYSHLGNHFAADEDSNAQ- --VITENQL 316
 Qy 249 EQSHQAVTEAMRIGSPEEVEVSHRLAATLHLGNTEFVETEEGSLQKEGLAVAAEALV 308
 Qy 317 KYLTRLIGVETSTLRBALTHRKIAKEELLSP-UNLQEAAYARDALAKAYTSRFTWLV 375
 Db 309 DVAELTATPDRDVLSLILARTVASGGRLEKHTAAEASYARDACAKAYQRLEFWW 368
 Qy 376 RKNIRSLASKDAEESPWSRSTVGLIDYIGPEVFOHNSFEQFCINCNCEKQLQQLFELTI 435
 Db 369 NRNSYMEPGRDPDRGDQTRVIGDQYDIDYIGPEVFPYNSFEQFCINCNCEKQLQQLFQL 428
 Qy 436 KSEQEEYEAEGJIAWEQYQYENFNKILCDLWEEKFKGTLISLDEECRPGATDLTFILEKL 495
 Db 429 KQEQQEYEREGTGTQSVYEFNATVDSLVERPHRGILAVLDACSSAGTTIDRIFLTQD 488
 Qy 496 DTVKPHPHFLTHKLADQKTRSLDRG-EFRLLHYAGEVTVYSGTGFIDKNDNLFRNLKET 554
 Db 489 THHRHLHYTHTSRLQC- -PTDXTMFGRDFRKHAGDVTISVEGFIDKNDRLFQDFKRL 546
 Qy 555 MCSSMNPIAQCF- ----DKSELSDKRPETVATQFKMSLQLQVETLRSKEPAYIRCICKP 609
 Db 547 LYNSTDQPTLZAMWPQDQQDTTEBT- -KRPPLTAGTLEFKNSMVALVENLASKEPFYTICRK 604
 Qy 610 NDAKQGPRFDEVLRHQVKYQKGLMENLRVRAFGAVRKEAFLOQYKSLQPEPTEW- -MWA 668
 Db 605 NEDKVAQKLDENHCKPHQAVYGLLENVRAFGASRQPSRFLRKYMCETYWNHL 664
 Qy 669 GRPQDGAVAVRHLGKYPPEYTMGRKTFKTFPKTLFATEDSLEYRQSLATKIQAWRG 728
 Db 665 GSDKAVALSSELEQHGLQ- -GDAFGHSLKFLFIRSPTLVLEOS- ----- 705
 Qy 729 FHWKRFLRYKRSACIQCQSMWRTGKRAKRNWAAQTLTERRLGFILRHSPRCPBNAF 788
 Db 706 --RARLPII- -IVLVLQKAWRGTLARWR- -CRRRLAATYTMWRFR- --RHKVRA- -- 750
 Qy 789 FLDHYRASFLINRQLPQVNLDTSMPTPPALREASELJRELCKMNMWVYCRSLSPEW 848
 Db 751 HLAELQRRF- -QAAQQPLPYGRDLWMLPPLPAVLOPDTCHALFCRWRQALQVKNIPSD 808
 Qy 849 KQQLQOKKAVASEIFKGKDNY- -POSVPLFLFISTRIGTEETSPRVLQLS- -----GSEF 899
 Db 809 MPQIKRKAAMGALQIQRDINGCRRAWARDLSSATDNPTASSLFAQRKLTLRDKDGFGA 868
 Qy 900 IQAYAPVYVYKDRKGKYPKPRPQLLTPSAVIVI- --DAKVKQRIDYANLTCISVSSLSDS 956
 Db 869 VLFVSHVTRVQNR- -FHKIRNRAALLTQHLYKLDPDRQYRMTRAVPLEAVTGLSVTSQGDQ 927
 Qy 957 LFVFLHYQREDN 967
 Db 928 LVVLHARGQDD 938
 Qy 376 RKNIRSLASKDAEESPWSRSTVGLIDYIGPEVFOHNSFEQFCINCNCEKQLQQLFIELTL 435
 Db 369 NRNSYMEPGRDPDRGDQTRVIGDQYDIDYIGPEVFPYNSFEQFCINCNCEKQLQQLFIL 428
 Qy 436 KSEQEEYEAEGJIAWEQYQYENFNKILCDLWEEKFKGTLISLDEECRPGATDLTFILEKL 495

Db	429	KQEQQEYEREGITWQSVEYFNNTAVDIVERPHRGILAVLDDEACSSAGTTIDRIFLQTLID	488	Db	137	VQHYKDIIILQSNPLLEAFGNVAKTVRNNSSRFGKYEIIFQSRGGEPDGKKSINPLLEKSR	196
Qy	496	DTVKPHPHFLTHKLADQKTRKSLSRQG-EFRILHYAGEVITYSVTGFLDKNDLLEPNLKEI	554	Qy	208	VVHQHGEANFHVFQLLGGEBETLRLIGLERPQSYIYLVRKGCAKVSININDSDWKV	267
Db	489	THRHHLHYTSRQLC--PTDTIMEFGRDFRTHKHYAGDVTSVEGFIDKRDFFQDFKRL	546	Db	197	VVMQENERNPHIYXQOLLEGASQQRQNLG-MTPDYYTLNQSSTDYQVDGTDSDRDFGE	255
Qy	555	MCSMNPIMAQCF----DKESELSDKKRPEVATQFKMSMELLQVLLRSLKEPAYRCRCP	609	Qy	268	MRKALSVIIFTEDVEDLJLISAVSVLHGNTHFADEDSN-AQVTTENOLKYLTRLGVE	326
Db	547	LYNSTDPTFLRANWPQDQODTET--KRPATAGTLFLKNSVYALVNLAKSKEPFVYRCRCP	609	Db	256	TLSWQVIGIPPSIQLVQVACIHLHGNISFC--EDENYARYEVSDLLAFAPAVLLGID	313
Qy	610	NDAKOEGRFDEVLIRHQVXKYLGMENLRLVERAGFAYRKYEAFYRQSLCPETWPMWMA	668	Qy	327	GTLREALTHRKTLIA---KGEELISPLNLEQAYARDALAKAVSRPTFTWLVRKINRSL	382
Db	605	NEDKVAGKLIDENHCRHQVAVLGMENLVRVERAGFASRQPSRELLRYKMTCEYTWPNHIL	664	Db	314	SGRLOEKTSRKMDSRWGGRSSESVNTLNEQAYRTDALKGYARLFDFLYEAINPAM	373
Qy	669	GRPDGSAVAVLVRHLYKEPEEYKMGRTKIFIREPKLLEATDSLEVRQSQSLATKLOAANG	728	Qy	383	ASKAESPSPWRSITVIGLIDYKPEVFOINSFECPIVNCNEKQQLQFELTURKSEQEY	442
Db	665	GSDKAVSALLAEQHGLQ-GDVAFGHISKFLIERSPLVLTVEQS-----	705	Db	374	-QKPEEYS-----IGVLDIYKPEFQKNGEOFQINFVNNEKQQLQFELTUKAQEY	426
Qy	729	FHWROKFLRYKRSACIQCQSMWRGLGRKKAQTRRLRGFIRLHSRCPENMF	788	Qy	443	EAEGIAWEPVQYFNKIKICDLVKEFKF--GIIISLDEECL---RGEATDLTFLKELST	497
Db	706	--RARLIP--IVLLQKAWTRKTLARMR-CRRLRATYTMWRP---RHKYRA---	750	Db	427	VQSRTRWPIQYFNKVKVCDLNNKLSPGIMVLDVDCATMEATGGADQTLQKJAA	486
Qy	789	FLDHVRASTFLINRRLQPLNVLDTSMWPTPPALBASELLERLCMRNMWVYCRSISPPW	848	Qy	498	VKPHPHFLTHKLADQKTRKSLSRGEFRILHYAGEVITYSVTGFLDKNDLLEPNLKEITCS	557
Db	751	HLAEIQLRFF-QAAKQPPLYGRDLVWPLPAPVQLOFQDTCHALFCRWRRQLVNKNIPSD	808	Db	487	VGTHEHF-----NSWSAG-FVTHHYAQSVDYSGFCEVRNVLRFSDLIELMNT	534
Qy	849	KQQLQQKAVASEIFKGKDKRY--POSVPLFLISTRLGTEBEISPRVLOSH-----GSEP	899	Qy	558	SMNPIIMAQCFDKSELSDKX-REPVTATOFKMSMQLLQVLLRSLKEPAYRCIKENDAKDGP	616
Db	809	MPOIKAQKUAMGALQGLRQDWGCRRAWADYLLSATDNFTASSLFAQRKTLRDRGFGA	868	Db	535	SEQAFRLMFLPEKLDGDKGRPSTAGSKIKKQANDVATLMLRCTPHYRCIKENETKPR	594
Qy	900	IQYAVPVWYKDRKGKYPKRQLLITPSAVVTE--DARKVKORDYANLTGIVSSLSDS	956	Qy	617	RFDEVILRHQVXKJGLMNLNRYRAGFAYRKYEAFYRQSKLCPETWPMWAGRPQDGVY	676
Db	866	VLFSSHVVRKVN -PHKIRKRALLTQHNYKLDPDRQTVMRAPLEAVTGLSYTSGGQDQ	927	Db	595	DWENPRVQHVQVGLKENTIRVAGFAYRQPAKFLORYALITPEIPRWRDQDERQVQ	654
Qy	957	LFVLLHQREDN 967		Qy	677	VLYRHGTYKPEEYKMGRTKIFIRFPKULFATEDSLEYRQSLATKIQAAWRGFHWRQKFL	736
Db	928	LVVLHARGQDD 938		Db	655	HLDRAVNMEPDQIQMGSTKVFVANPESLFLLEVRVRFEDGFARTIKRAW-----	704
RESULT 1.0							
US-10-104-047-3280				Qy	737	RVKRSATCJQSWMRGTGLGRKAKAKRKAQACTIRRIGRFLRHSRDPENAFFLDRYRAS	796
Sequence 3280, Application US/10104047				Db	705	-----RRHYAVRK-----	713
Publication No. US20030236392A1				Qy	797	FLINLRROLPRNVLDTSMWPTPPALBASELLERLCMRNMWVYCRSISPEWPKQLOQKA	856
GENERAL INFORMATION:				Db	714	-----EEMPE-----	718
i APPLICANT: HELIX RESEARCH INSTITUTE				Qy	857	VASEIFGRKDNYPOSYRFLFISTRLGTEEISPRVLOSLGS-EPIIOYAVPVYKDRKGK	915
i FILE REFERENCE: HL-70105				Db	719	719 EASNLINNKERRNSINRNFGDYLGLEE -RPELROLFLGRERVDAFSVTKYDRR-FK	776
i CURRENT APPLICATION NUMBER: US/10/104,047				Qy	916	PREQLLTPSAYVIVEDAKY-----KQBDYANLTGIVSSLSLSDSLFUVH	962
i CURRENT FILING DATE: 2002-03-25				Db	777	PIKRDLLTPKCVVIGREKVKGPPKGQVCEVLUKCKVQDLSLSTRDDEPFLI--	834
i PRIORITY APPLICATION NUMBER:				Qy	963	QREDNKQKGDVVLUQSDHVIETLKT--ALSADRUVNNININGQSIYA-----	1007
i PRIORITY FILING DATE:				Db	835	-QED-----AASFLESYFKTBEVSLICKRFEATRRLPLTIESDTLQERYKEGW	884
i SOFTWARE: PatentIn Ver. 2.1				Qy	1008	GGPGRDGLIDFTSGSELLITKRNGLHIAV 1036	
i SEQ ID NO: 3280				Db	885	GGGTGTSVTSFRGFGDLAVLKVGGRCLTV 913	
i LENGTH: 1098				Qy			
i TYPE: PRT				Qy			
i ORGANISM: Homo sapiens				Qy			
US-10-104-047-3280				Qy			
Query Match 31.9%; Score 1722.5%; DB 15; Length 1098;				Qy			
Best Local Similarity 38.2%; Pred. No. 3.e-14; Mismatches 303; Indels 193; Gaps 23;				Qy			
Matches 401; Conservative 152; Gaps 23;				Qy			
RESULTS				Qy			
28 GVQDFVLLNFSTAAIFIENRERFRENTYITGPVIVSVPYRDIQIYSRHOMERYRG				Qy			
18 GVDDMVLFLQIT-EDAIANLRRFMDDYIFTYGSVLLSVNDFKQMFYTFDIDYQG				Qy			
88 VSFYEVPPLFAYADTVYRALTERRDQAVMISGESGAGKTEATKRLQFYAETCPAPER				Qy			
77 AAQENPPIYAT-NDMVRNMLDCENOCVITGESEGAQKTYAAKTYMGYISKVSGGEGK				Qy			
148 GGAVRDRLLQSNPYLEAFGNAKTLRNDNSRFKGKMDVQDFKGAPVGHLSYLLEKSR				Qy			

RESULTS 11
US-10-204-481-2
; Sequence 2, Application US/10202481
; Publication No. US20040018567A1
; GENERAL INFORMATION:
; APPLICANT: Vallone, Marcy K
; APPLICANT: Wong, Brian R
; APPLICANT: Masuda, Estaban
; APPLICANT: Powell, Mark
; TITLE OF INVENTION: Modulators of B-lymphocyte Activation, Myosin-1F Compositions ar

TITLE OF INVENTION: OF USE
 FILE REFERENCE: A-71312/RMS/TAL/DHR
 CURRENT APPLICATION NUMBER: US/10/202,481
 NUMBER OF SEQ ID NOS: 15
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 2
 LENGTH: 1098
 TYPE: PRT
 ORGANISM: Homo sapiens
 us-10-202-481-2

Query Match 31.8%; Score 1714.5; DB 15; Length 1098;
 Best Local Similarity 38.1%; Pred. No. 1.8e-146;
 Matches 400; Conservative 152; Mismatches 304; Indels 193; Gaps 23;

Qy 28 GYQDFVILENFTSEAAFIENLRRFRENLLTYIGPVLYSNPYRDLQIYRSRQHMERG 87
 Db 18 GVDDMWILPQIT-EDATAANLKRKFMDYDIFTYIGSVLISNTNPFKQMPYFDREIDLYQ 76
 Qy 88 VSFYEVPPHLFAVADIVYRALTEREDQAVNLISGESEAGKTEATKRLLQYAEETCPAPER 147
 Db 77 AAQYENNPPIA7LTDNNYRMNLMIDCNCVIIISGESGAGKTVAAKYIMGYTSKGGGEK 136
 Qy 148 GCAVRDRLQSNPVLAEFGNAKTLRNDNSRFGKMDVQDFKGAPVGHTLSSYLEKSR 207
 Db 137 VQHVKDILQSNPVLAEFGNAKXTVRONNNSPFGKFEIIFERGGBEDGKCNFLEKSR 196
 Qy 208 VVHQNHEGERNFPHVYQOLLEGEEETLRLRGLHERNPOSYLYVKGQCAKVISSINDKSDWRY 267
 Db 197 VVMQNEERNFPHIYYQLEGASQEQNQLG-MTPYXXYLINOSDTYQDGTGTDORSDFGE 255
 Qy 268 MRKALSYIDFDEDEVEDLISLIVASVHLGNHFAADEDSN-AQVTEENQDQYLTTRLGE 326
 Db 256 7LSAMQVIGIPPSIQIQLVOLVAGILHGNISFC--EDGNYARVESVDLIAFPAYLGD 313
 Qy 327 GTTLREALTHRKIA---KGEBELLSPLNIEQAYARDALAKAYTSRTFTWLVRKINRSL 382
 Db 314 SGRLOEKLTSRKMDSERWGMGRBESINVTLNEQANTDRLAKGLTARLFDLVEAINRAM 373
 Qy 383 ASKDAEFSRWSRSTTVLGLLDIYGFEVYQHNSFEQFCINCYCNEKQLQQLFIBLTKEQEFY 442
 Db 374 -QKPOBEYS-----IGVLDIYGFETFQKNGFEQFCINFYNEKQLQFIBLTKEQEFY 426
 Qy 443 EAEGIAWEPYQYFNKKLICOLVEEKK--GIIISLDEECI--RPGEADLTFLFLEKLDT 497
 Db 427 VQEGIRWTPIQYFNKKVCDLJENKLSPGIMSVLDDVCAATMHA7GGQDQTLQKLQIA 486
 Qy 498 VKPHPHFLTHKLADQKTRKSILDRGEPLRLLAYAGEVTTSTGFLDKNDLIFRNKJETMCS 557
 Db 487 VGTHEEF-----NSMAG-FVTHHYAGKSYDVSFCERNRDVLFSDIELMQT 534
 Qy 558 SMNPIMAQCFDSKSELSDKR-PREPETYATQFMISLLOLVEILRSKEPAYIRCIKPNDAKORG 616
 Db 535 SEQAFIRMLPFPEKLDQKGRPSTAGSKIKQANDIVATMRCIPIHYCJIKPMETKHR 594
 Qy 617 RFDEVLRHOFKYLGLMENLVRRAFGAYRKYEAFLQRYKSLCBETPMWAGRQDGTIA 676
 Db 595 DWEENRVRKHQVEYLGLKENTRVRRAFGAYRKYEAFLQRYKSLCBETPMWAGRQDGTIA 654
 Qy 677 VLVRHLYGKPEPEYKNGRTKIFIRPKTLFATEDSLEVROSLATKIQAWRGHFIWRQKLF 736
 Db 655 HLLRAYNMEPQDQYQGSTMVKVNEFSLFELLEVERKFQDFARTIQKAW----- 704
 Qy 737 RVKRSATC1QSWRGTGKAAKKEKWAQTTIRLIRGFTLRRHSPRCPEANAFFLHVRAS 795
 Db 705 -----RRHVAVKY----- 713
 Qy 797 FLLNLRQLPRNVLDTSWTPPPALREASELLRELCKMNVKWCYCRSISPEWKQQLQKTA 856
 Db 714 -----BEMRE----- 718
 Qy 857 VASEIFGKDDNYPQSVPLFPISTRIGTEEISPRVQLQSLG-SEPIQYAVPVVKYDRGKIK 915

Db 719 EASNTLNKCEERRRISINRNRFVGDDTGLGLEE-RPERRQFGLKKEVYDFADSVTYKVR-FK 776
 Qy 916 PRPROJLILTSAAVIVEDAK-----VRQDIDYANLTQTSVSLSDSFVLUHV 962
 Db 777 PIKRDILILPKCVCYVIGREMKKGBPKQCEVILKVKDQIQLGQVSLSTRQDDEFIL-- 834
 Qy 963 QREDNQKQGDVVLQSDHIVETLTKT--ALSADRVNNININQGTTFA----- 1007
 Db 835 -QED-----ADSFESLSEVFKEFVSLCKREFEATRRLPPIFSDTLQFRVKEGW 884
 Qy 1008 GGPGRDGILIDFTSGSELLITKAKNGHHLAV 1036
 Db 885 GGGTRSVTSRSGFQDIAV1KVGGRTLTV 913

RESULT 12
 US-10-336-472-26
 Sequence 26, Application US/10336472
 Publication No. US2004004392A1
 GENERAL INFORMATION:
 i APPLICANT: Anderson, David W.
 i APPLICANT: Baumberger, Robert A.
 i APPLICANT: Baumgartner, Jason C.
 i APPLICANT: Burgess, Catherine E.
 i APPLICANT: Casman, Stacie J.
 i APPLICANT: Chant, John S.
 i APPLICANT: Bezchi, Constance
 i APPLICANT: Gangoli, Bsha A.
 i APPLICANT: Edinger, Shlomit R.
 i APPLICANT: Elleman, Karen
 i APPLICANT: Furuk, Katarzyna
 i APPLICANT: Gerlach, Valerie
 i APPLICANT: Gilbert, Jennifer A.
 i APPLICANT: Gunther, Erik
 i APPLICANT: Gutzmer, Linda
 i APPLICANT: Guo, Xiaojaia Sasha
 i APPLICANT: Ji, Weizhen
 i APPLICANT: Li, Li
 i APPLICANT: Liu, Xiaohong
 i APPLICANT: Miller, Charles E.
 i APPLICANT: Millet, Isabelle
 i APPLICANT: Padigaru, Muralidhara
 i APPLICANT: Patturajan, Meera
 i APPLICANT: Rassell, Luca
 i APPLICANT: Machougal, John R.
 i APPLICANT: Mishra, Vishnu
 i APPLICANT: Penai, Carol E.A.
 i APPLICANT: Spederma, Steven K.
 i APPLICANT: Shirkens, Richard A.
 i APPLICANT: Smithson, Glenda
 i APPLICANT: Spyrek, Kimberly A.
 i APPLICANT: Stone, David J.
 i APPLICANT: Shenoy, Suresh G.
 i APPLICANT: Ort, Tatiana
 i APPLICANT: Taupier Jr, Raymond J.
 i APPLICANT: Tcherney, Velizar T.
 i APPLICANT: Vernet, Corine A.M.
 i APPLICANT: Wolenc, Adam R.
 i APPLICANT: Verhassen, Bryan D.
 i APPLICANT: Zhong, Mei
 i TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
 i FILE REFERENCE: 21-02-533C
 i CURRENT APPLICATION NUMBER: US/10/336,472
 i CURRENT FILING DATE: 2003-01-03
 i PRIOR APPLICATION NUMBER: 09/746,491
 i PRIOR FILING DATE: 2000-12-20
 i PRIOR APPLICATION NUMBER: 10/005,041
 i PRIOR FILING DATE: 2001-12-04
 i PRIOR APPLICATION NUMBER: 10/023,681
 i PRIOR FILING DATE: 2001-12-18
 i PRIOR APPLICATION NUMBER: 10/024,212
 i PRIOR FILING DATE: 2001-12-18

PRIOR APPLICATION NUMBER: 10/055,569
 PRIOR FILING DATE: 2001-10-06
 PRIOR APPLICATION NUMBER: 10/080,334
 PRIOR FILING DATE: 2002-02-21
 PRIOR APPLICATION NUMBER: 10/092,900
 PRIOR FILING DATE: 2002-03-07
 PRIOR APPLICATION NUMBER: 10/136,826
 PRIOR FILING DATE: 2002-05-01
 PRIOR APPLICATION NUMBER: 10/236,417
 PRIOR FILING DATE: 2002-09-06
 PRIOR APPLICATION NUMBER: 60/345,092
 PRIOR FILING DATE: 2002-01-04
 Remaining Prior Application data removed - See File Wrapper or PALM.
 NUMBER OF SEQ ID NOS: 230
 SOFTWARE: CuraseqList version 0.1
 SEQ ID NO: 26
 LENGTH: 1,096
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-336-472-26

Query Match 31.1%; Score 1709.5; DB 12; Length 1096;
 Best Local Similarity 38.2%; Pred. No. 5.1e-146;
 Matches 400; Conservative 148; Mismatches 307; Indels 193; Gaps 23;

28 GVQDFVILENFTSEAFIENLRRRFENLITYIGPVILVSNPYRDLQIYTSRQHMBRYRG 87
 Db 18 GVDDWTLQPQT-EDATAANLKRKFMDYDIFTYIGSVLISYPFPQMFYDREIDLYQ 76
 Qy 88 VSPYEYPPHLEAVADTYRAIRTERDQAMISGEGAGKBEATRLLQFYAETCPAPER 147
 Db 77 AVQYENPPHTIALTDNMVRLIDCENQCVISGESGAGKTVAAKYIMGYISKVGGGEK 136
 Qy 148 GGAVDRLLQSNPVLIAFGNAKTLRNDNSSFQKYMDDVQFFKGAPVGCHLTSYLEKSR 207
 Db 137 VQHVDLILQSNPVLIAFGNAKTVNNNSFQKYMDDVQFFKGAPVGCHLTSYLEKSR 196
 Qy 208 VVHONHGERNPHVYQOLLEGEBETLRLRGLERNPQSYLKLVKQGCAKSSINDKSDWKV 267
 Db 197 VVMQNEERNPHVYQOLLEGEBETLRLRGLERNPQSYLKLVKQGCAKSSINDKSDWKV 255
 Qy 268 MRKALSVIDTDEVEDDLISIVASVHLGNTHAEDDSQAQVTTENQKYLTRLGVEG 327
 Db 256 TLSAQVQGIPPSIQQLVQVAGIHLGNNSFC--EDGNYARYVSVDLAFPAYLLGIDS 313
 Qy 328 TTLREALTHKLLA---KGELLSPNLQOAAZDALAKAVSRTEFLVLRKINRSA 383
 Db 314 GRLQKLTSXKMDSRNGGSESINTLNQTAQYTRDALAKGLTARLFELVEAINRAN- 372
 Qy 384 SKDAESPSWRSRSTVVLGLDLYGFVEQHNSFEQFCITNCNEKQQLQFELTILKSQEETE 443
 Db 373 QKQDEYS---IGVLDIYGFETQKNGFEQFCINFNFEKLNQQLQFELTILKSQEETE 426
 Qy 444 AEGTAWEPYQYFNKKLICLVEEKFK--GIIISLDEECL--RPGEAATDITFLEKEDTV 498
 Db 427 QEGIRWTPIQYFNKKVCLLJENKLSPGIMSVLDDVCATMHAATGGAAQTLQKQAV 486
 Qy 499 KPHPHFLTHKLADQTKRSJDRGEFRLLITYGTVSYTGFLKNDLJFRNJKETMCS 558
 Db 487 GTHEF---NSWSAG-FVTHIHYAGKSYDVGFCERNRDVFSDLTELMOS 534
 Qy 559 MNPIIMAQCDFDKSELSDKK-RPETYATQFQMSLQIOLVEITLRSKEPAYTICKENDAKQGR 617
 Db 5345 -EQFQMLFPEKLDKGRPSTAGSKKQANDIVATMRCRTHYIJKPNETKPRD 593
 Qy 618 FDEVLIRHQQYKYLGLMENLVRRAFGAYRKYEAFQKNSLCPETWMWAGRQDGIVY 677
 Db 594 WEENRVKHQVEYGLKENVRRAFGAYRQAFPLQVTAITPWRWRGDEROGYQH 653
 Qy 678 LVRHGYKPEYKANGRTKAFIREPKTFLATEDSLVRSRPLSLATKTOAARGFHWRQKPLR 737
 Db 654 LLRAVNMEDQYQMGSTKOFVKNPESLFLLEEVRERKFDFGARTIQKAW----- 702

Qy 738 VIKRSA-ICIOSYMRGTLGRRKAAKRWAAQCTIRRLIRGFLRLHSPPRCPENAFLDHYRASF 797
 Db 703 -----RRHFAVRY----- 711
 Qy 798 LINLRLRQLPRLVNLDSWPTPPALAESELLRELMCMKNTWYKCYRSISPEPMQQLQOKAV 857
 Db 712 -----EENRE-----E 717
 Qy 858 ASEIFKQKONYQSPQPLFLSTRGTEETSPRVIQSLGS-EPIQVAVPVYKDYKGYKP 916
 Db 718 ASNLLNKKERRNSNINRNFVGDYGLEE-RPELFLQFLGRERVEADSYSTKDRR-FKP 775
 Qy 917 RPRQQLTPSAVIVYEDAKV-----KORIDYANLTGTSVSSLSDSFLVLYHQ 963
 Db 776 IKRDLITPCKVYVIGREYVKGPKEXQVCEVLKRVKDQALRGYSLSTRQDDFFIL--- 832
 Qy 964 REDNPKQKGDVVLQSPHVIETLTKT---ALSADRVNNININQGSITPA-----G 1008
 Db 833 QBD-----AASFSLFSEVKTBFVSLICKRERVEATRERPLPLTSDRILQFRVYKEGNG 883
 Qy 1009 GPRGRDGLIDFTSGSLLITFARRGHLAV 1036
 Db 884 GGCTRSVTSRGEFGDILAVLKVGRTLT 911

RESULT 13
 US-10-236-417-66
 ; Sequence 66, Application US/10236417
 ; Publication No. US20040048256A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Agee et al.
 ; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
 ; FILE REFERENCE: 21402-442C
 ; CURRENT APPLICATION NUMBER: US/10/236,417
 ; PRIORITY FILING DATE: 2003-01-06
 ; PRIORITY NUMBER: US60/318,120
 ; PRIORITY NUMBER: US60/318,430
 ; PRIORITY FILING DATE: 2001-09-10
 ; PRIORITY NUMBER: US60/322,781
 ; PRIORITY FILING DATE: 2001-09-17
 ; PRIORITY NUMBER: US60/318,184
 ; PRIORITY FILING DATE: 2001-09-07
 ; PRIORITY NUMBER: US60/361,663
 ; PRIORITY FILING DATE: 2002-03-05
 ; PRIORITY NUMBER: US60/396,412
 ; PRIORITY FILING DATE: 2002-07-17
 ; PRIORITY NUMBER: US60/322,636
 ; PRIORITY FILING DATE: 2001-09-17
 ; PRIORITY NUMBER: US60/322,817
 ; PRIORITY FILING DATE: 2001-09-17
 ; PRIORITY NUMBER: US60/322,816
 ; PRIORITY FILING DATE: 2001-09-17
 ; PRIORITY NUMBER: US60/323,519
 ; PRIORITY FILING DATE: 2001-09-19
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 341
 ; SOFTWARE: Custom
 ; SEQ ID NO: 66
 ; LENGTH: 1096
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-236-417-66

Query Match 31.7%; Score 1709.5; DB 12; Length 1096;
 Best Local Similarity 38.2%; Pred. No. 5.1e-146;
 Matches 400; Conservative 148; Mismatches 307; Indels 193; Gaps 23;

Qy 28 GVQDFVILENFTSEAFIENLRRRFENLITYIGPVILVSNPYRDLQIYTSRQHMBRYRG 87
 Db 18 GVDDWTLQPQT-EDATAANLKRKFMDYDIFTYIGSVLISYPFPQMFYDREIDLYQ 76

Query		Result		Information	
Db	77 AVQYENPPHTIALTDNNYRNMLIDCENQCVTISGESEAGKTVAAKYIMGYTISKVSGGGK 136				
Qy	148 GGAVERDRLQSNPVLAEAGNARTLNDNSRFGKIMDQDFKGAvgGHTSYLLEKSR 207				
Db	137 VQHNDLILQSNPILLEAGNAKTTRNNSSFGRKPEIYQFSGGEDDGKISNFFLEKSR 196				
Qy	208 VVHONGERHNTFVYQLEGGEEFTLRLGLERNPQSYLVLVKGCCAKVSSINDSDWKV 267				
Db	197 VVMQNENERNPHIYQLEGGASQERQNLGI-MTPDQYYYLNSQDITYQVQGTDSDRDFGE 255				
Qy	268 MRKALSVIDFEDVEDLILSVASVHGNHFAADEDSNAQVTTENQNLKYVTRLIGVBG 327				
Db	256 TLSAMQVIGIPPSIQLVLQVAGILHGNISFC--EDGNYARVESVDAFPAYLIGIDS 313				
Qy	328 TTLREALTHRKILIA---KGEBPLSPNLEQAYARDALAKAVYRSTFTWLVRKINRSLA 383				
Db	314 GRLQKLTSKMDKMSWGRGERSINTLVNEEARYTDLAKGLYARFLDVEANRAN- 372				
Qy	384 SKDAEAPSWSRSTVYQGLLIDYGFVFOHNSPEQFCINCNCEKQFOLFILETLKSKOBEYE 443				
Db	373 QKPQEYS---IGVLDIYGFIFQNGEQFCINFVNLKQFQBEYV 426				
Qy	444 AEGIAWEWPQYNNKELICDYEKKR--GLISLIDEEC--RPGEATDITFLEXEDTV 498				
Db	427 QEGIRWTPIQYFNNKVCUDLKENKLSPGIMSVLDDVCATMHTAGGDAQTLQLQAAV 486				
Qy	499 KPHPHFLTHKLADQKTRSKLDRGEPRLLHAGEVTTSYTGFLDKNDLFLRNLLKETMCS 558				
Db	487 GTTHEF--NNSAG-FVIIHAGKVSYDVSFCEPDRDVLPSDILBIMQTS 534				
Qy	559 MNPIVAQCFDKSELSDKK-RPTEVATQKMSLQLVEILRSKEPAYTRCTKPNDAKPGR 617				
Db	535 -EQFLRMLFPEKLDGDKRGPSTASKIKQANDLVATMRCPTPHYTRCTKPNTKPRKD 593				
Qy	618 FDEVLIRHQVKYKLGMLENRURBAGAYRKYEAIIQKSLCPETWPAIGRPDGAV 677				
Db	594 WEENRVKHOVEYLGLKENITVRRASFAVYRQFOAKELQRTAILTPWPWRGDERQVQH 653				
Qy	678 LVRHLGKYKPEYKMGRTKIFTRPKTLFATEDSLSLVRQSQEATKIQQAARGFHWQRQKFLR 737				
Db	654 LLRATYMEPPQYQMCSTKTVKPNPSSLFLIEEVREKFDFPARTIQKAN----- 702				
Qy	738 VKRSAICIQSWWRGTIGRKAERKWAQTTRRLTRGFILRHSPRCOPENAFFLDHVRA SF 797				
Db	703 -----RIVIAVRYK----- 711				
Qy	798 LLNLRLRQLPRNVNLDTSWPTPPPALEAEESELRELOMKWVWYKCRSISPEWKQQLQKAV 857				
Db	712 -----EEMRE----- 717				
Qy	858 ASEIFGKDKNDYNPQSVPRLPISTRIGTEESPRVLQSLGS-EPIQYAVPVVKTDKGYKP 916				
Db	718 ASNLLNKKRERRSINRNPVGDYGLIE-RPEEPOFQKPERIDADSMTKDR-FP 775				
Qy	917 RPRQLLTIPSAVIVEDAKY-----KORIDYANLTG1SVSSLSLSDSLFVLYHQ 963				
Db	776 IKRDLILTPKCVVYIGREVKKGQCEVLKGVDTQALRGVSLSTRQDDFIL-- 832				
Qy	964 REDNKQKGDVYQLDHVITLTKT--ALSADRVNNININQGSITRA-----G 1008				
Db	833 QED-----AASFLFSEVKBTFVSLICKRPEEATRPLTFTSDRLQFRVKKEGNG 883				
Qy	1009 GPGRDGIIIDTSGSPLLITAKNGHLAV 1036				
Db	884 GGCTRSVTSRSGFGDIAVVKYGGRTLV 911				
Qy	29 VQDFVLLNFTSEAAFIERRREFENLYTYTGPVLVSVNPYDQLQYSRQHMEYRGV 88				
Qy	RESULT 14				
	US-10-080-334-165				
	Sequence 167, Application No. US20040002584A1				
	Publication No. US20040002584A1				
	GENERAL INFORMATION:				
	Query Match 29.5%				
	Best Local Similarity 47.3%				
	Matches 329; Conservative 125; Mismatches 191; Indels 51; Gaps 12;				

DB	Query Sequence	Subject Sequence	Matches	Conservative	Mismatches	Indels	Length	Caps
1	VEDMABEL-TVLNEPFLVHNKRRKYADLITYTSGFLVSYNPYKRLPITFEEFKYRGK	59	367	320;	Indels	200;	Length 21;	
89	SEFYEPPHI-FAVADTYVRAILTERDQAMVISGEAGAKTEATRKLLOFVAFETCPAPERG	148	27	VGQDYLLENFTSRAFIENLRRPRENLIYTIGPVLVSYNPYRDLQIYRSRHMERYR	86	QY		
60	RRYELDPHITPAIADEAYRSMLSDKENQSTLISGEAGAKTENTKVMQVLA---AVSGG	115	14	VGDDMVLPLKLT-BOSIVENLKKQIANS-FTYCPVLISVNPFKOMPYTEKEKMLYQ	72	Db		
149	-----GAVIDRLLQSNPVLLEAFGNAKTLRNDNSSEFGKNDVQDFKGAVFGHHSYLL	203	87	GVSFYEVPFH-FAVADTYVRAILTERDQAMVISGEAGAKTEATRKLLOFVAFETCPAPE	146	QY		
Db	116 NGKGKVRVEQIQLQSNPVLLEAFGNAKTTNNNSSEFGKTEIQDFKTKGAKTENLL	175	73	GAQYENAPHTIALADNMVSNMLNEQSCVLTISGSGAGKTVNAFKIMNYISRISCGGQ	132	Db		
204	EKSRYVHQNGERENPHVYFOLLEGGEETLRLGLERNPQSYLVLKGOCAYKSVSINDKS	263	147	RGGAVIDRQLQSNPVLLEAFGNAKTLRNDNSSEFGKMDQDFKGPVPGHHSYLL	206	QY		
Db	176 EKSRYVYQFGERNFHIFQLLAGSQQLKELNI-TDPPDHYLNQGGGTYVGDDBE	234	133	KVQHITKDVILQSNPVLLEAFGENSATVNNNSSEFGKXVETVFSRGGEPIGGKLSNPLJEKS	192	Db		
264	DWKYMRKALSVIDFTEDVEDLLSIVASVHLGNTH-----AAEDSNAQVTTENOL	316	207	RVHONGENENHVFYQLEGGEETLRLGLERNPQSYLVLKGOCAYKSVSINDKS	266	QY		
Db	235 EFKEKDAMDLGFSDEEQLISFRIVAAIHLGNIKFKQRKKEAAEPDT-----KAL	288	193 RVHQNEGDNRNFAVYQLEGGEETLRLGLERNPQSYLVLKGOCAYKSVSINDKS	251	Db			
QY	317 KY4TRLIGVETTIREALTHRKTIAKGEELLSPINLQOAYARDALAKAYWSRFTWLYR	376	267	VMRKALSVIDFTEDVEDLLSIVASVHLGNTHAEDDSNAQVTTENOLQKYLTRLILGVE	326	QY		
Db	289 QIAAELLGDAKELEKALLSRRITKGEGSYTVPQNEQARYARDALAKAYSLRFDWITN	348	252	STLHAMKQWVNDQOLEVRIVATVHLIGNITF-TEENNFAAISGKDYLEYPAPLGLLT	310	Db		
QY	377 KINESLASKDAEESPWSRSTVGLLIDYGEVFOHNSFQFCINCYCNEKQCOLPTELTIK	436	327	GTTRREALTHRKLAK---GEELSPNLNEQAAVADALAKAYWSRFTWLYR	382	QY		
Db	349 RINKSLDFKAKEGANF-----IGVLDIIGFEEFIFENNSFQQLCINYNTRLQFENHNMFK	403	311	SADIEAKLTCRKMESKWGTQKEE1DMKLNEVQASYRDAWVKAYIYARLFDLYVVKNDAM	370	Db		
QY	437 SEQEEYEARGIAAMEPVQYENKNIKICDLYVEEKFKGJISLDEECRPGATDLPFLEKED	496	383	ASQDAEESPWSRSTVGLLIDYGEVFOHNSFQFCINCYCNEKQCOLPTELTIK	442	QY		
Db	404 LEQBEYKREGIEWFIDFGNDQPCIDLTBKPPGTLSLIDEECRFP-KATDQFELDKLYS	452	371	--NITSQSTSNDNSFGVSLDUDTCAQNHGOREGVDRQLLTLTSKSF	487	Db		
QY	497 TVXKPHPHFLTHKLADQKTRKSLSRGEFLRHYAGEVTSVTFDKNNDLFRNLKETMC	556	443	EAEIGIAWEPVQYFNPKTICDLYVEEKFKGJISLDEECRPGATDLPFLEKEDTV	498	QY		
Db	463 EFSNPHPHFKPRFKQKKS-----FLIKHYAGDVEENVEGFLKENDPFLDDLIELIK	514	428	VREGTIKWTEDYFDNKIVCFDLIETKRPQGIMSLDDTCAQNHGOREGVDRQLLTLTSKSF	487	Db		
QY	557 SNNAPIMAOCF-----DKSELSLDRKRPE-----TVAQFKMSLLOLVEILRSKEPAYI	604	499	KPHPHFLTHKLADQKTRKSLSRGEFLRHYAGETVSYTGFLDKNDNLFRNLKETMCSS	558	QY		
Db	515 SSENPLLAELFPDXEADPSLSSKRKTKTSKNSRFTVGAQFKESLNTMKTLSNPHFV	574	488	488 AGHHPF-----GPGSDSFVTKHYAGDVTYNDGFCDRNRDLYPDLLLMOKS	535	Db		
QY	605 RCIKPNDKAQGRFDEVILRHQVKYGLMENLRVRRAGFAYRKYEAFLQRYKSLCPBTW	664	559	MNPMTMAQCPDKS-ELSDKCRPTEVATQFKMSLLOLVEILRSKEPAYTRCIKPNDKAQGR	617	QY		
Db	575 RCIKPNEEKKPGFVEDASLVLQDRLCGVLEGIRIRRAGFSPRTFDEPQYRILAPKTW	634	536	536 SRPTEQALFPENVAASAKRKPTEFSTKRTQANTLVESLMKCSPHYVRCIKPNETKRPND	595	Db		
QY	665 PMWAGRGRPDGVA-VLVRHIGYKEEYKNGRTKIFIR	699	618	FDEVLIRHOKYKGLMENLVRVRAFAYRKYEAFLQRYKSLCPBTWPMWAGRGRPDGVA	677	QY		
Db	635 PKNSGDKGACELLQOALNLDKEEYQFSKTKIFER	670	656	656 ICDSVHMEKNOYQNGKTYLKVKNPESLFILEETRKEDGYARVIQKAWQFSAR-----	710	Db		
QY	RESULT 15		678	LVRHIGYKPEEYKNGRTKIFIRFPKTLPATEDLEVRVRSOLASTKIQAAWGRFHWRQKFLL	737	QY		
US-10-369-493-5164	Sequence 5164, Application US/10369493		656	656 ICDSVHMEKNOYQNGKTYLKVKNPESLFILEETRKEDGYARVIQKAWQFSAR-----	710	Db		
Publication No. US2010030233675A1	GENERAL INFORMATION:		738	VRSASACIQLOSWWRGTGLGRKAAKRKWAQATIRLIRHSPRCOPENAFFLDHVRASE	797	QY		
Applicant: Cao, Yongwei			711	711 -----	710	Db		
Applicant: Hinkle, Gregory J.			798	LINLRLQPLRNVYLDSTWPTPPALREASELLRELCMNMWVYKCRSISPEWIKQOLQKAV	857	QY		
Applicant: Slater, Steven C.			858	858 ASLEIFKGEKKDNYPQSVPLFISTRGLTEEISPRVLSI-GSEPIQYAVPVVKYDRKGK	915	Db		
Applicant: Goldman, Barry S.			720	720 AADIMYGRKERRYSLRNFSRQVRLFACTANVKYDRK-FR	776	Db		
Applicant: Chen, Xianfang			916	916 PRPROLLITPSAVVIVEDAKV-----KQRDYANLTGIVSVSSLSDSFLVTH	962	QY		
Title of Invention: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF PLANTS WITH IMPROVED PROPERTIES			777	777 VTKLDLJLTVNHTLIGKEVKNGPEKGKIVEVIRQDFLPQIKSIGISPYQDDFVILYL	836	Db		
File Reference: 38-10-(52052)B			963	963 QREDNKGDKVGDVVLQSDHVIETLTK---TALS---ADRVNN-----INTNGQSI	1004	QY		
Current Application Number: US/10369493			837	837 GNDYSS-----LLETPTKETCTAUSKAYKEXTNGTHLDFRSSHVSYKMKF	886	Db		
Current Filing Date: 2003-02-28			1005	1005 TEAGGP-----GRDGLIDFTSGSEELLTKAONGHLAVIA	1038	QY		
Prior Application Number: US 60/360, 039						Db		
Prior Filing Date: 2002-02-21								
Number of SEQ ID NOS: 47374								
SEQ ID NO 5164								
Length: 1100								
Type: PRT								
Organism: Caenorhabditis elegans								
US-10-369-493-5164								
Query Match	29.0%	Score 1564; DB 15;	Length 1100;					
Best Local Similarity	34.7%	Pred. No. 9.7e-133;						

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GenCore version 5.1.6

OM protein - protein search, using sw mode.

Run on: March 30, 2004, 15:07:28 ; Search time 33.4868 Seconds

without alignment score

1609.516 Million cell updates/sec

Title: US-09-893-371A-1

Perfect score: 5398

Sequence: 1 MYRASALGSDGVTVTMEAA.....LITKAKNGHLLAVVAPRLNSR 1044

Scoring table: BLOSUM62

Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

1: /cgn2_6/ptodata/2/iaa/5A_COMBO.BEP:*

2: /cgn2_6/ptodata/2/iaa/5B_COMBO.BEP:*

3: /cgn2_6/ptodata/2/iaa/6A_COMBO.BEP:*

4: /cgn2_6/ptodata/2/iaa/6B_COMBO.BEP:*

5: /cgn2_6/ptodata/2/iaa/PCTUS_COMBO.BEP:*

6: /cgn2_6/ptodata/2/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1191	22.1	1939	4	US-09-310-187A-1
2	1190	22.0	1972	4	US-08-875-435B-4
3	1169.5	21.7	1972	4	US-08-875-435B-3
4	1150.5	21.3	1285	4	US-09-976-594-507
5	1146	21.2	1120	4	US-09-147-404-1
6	1105	20.5	2548	4	US-09-172-422-1
7	1078.5	20.0	1236	4	US-09-883-134-4
8	1018	18.9	1886	4	US-08-938-105-3
9	575.5	10.7	1695	4	US-09-866-108A-15753
10	519.5	9.6	1581	4	US-09-866-108A-15754
11	497	9.2	2568	4	US-09-866-108A-3
12	160	3.0	1809	3	US-09-012-515A-12
13	160	3.0	1809	3	US-08-360-14A-12
14	160	3.0	1809	4	US-0-012-50A-12
15	160	3.0	1809	4	US-09-012-399A-12
16	160	3.0	2549	4	US-08-471-112A-3
17	160	3.0	2549	5	PCT-US95-06722-12
18	154	2.9	2549	4	US-08-265-967C-1
19	154	2.9	2549	4	US-08-305-790B-2
20	152.5	2.8	103	3	US-08-905-223-395
21	132.5	2.5	3878	4	US-09-912-259-11
22	130	2.4	1529	4	US-09-134-001C-3945
23	126	2.3	567	4	US-09-134-001C-3762
24	124	2.3	1093	5	PCT-US93-03077-1
25	123.5	2.3	1333	3	US-09-316-952-2
26	123.5	2.3	1333	4	US-09-976-594-312
27	122.5	2.3	1319	2	US-08-290-731C-2

ALIGNMENTS

RESULT 1		US-09-310-187A-1		; Sequence 1, Application US/09310167A	
				; Patent No. 63188751	
				; GENERAL INFORMATION:	
				; APPLICANT: Benichou, Gilles	
				; FEDOSSEYeva, Eugenia	
				; TITLE OF INVENTION: Involvement of Autoantigens in Cardiac	
				; TITLE OF INVENTION: Graft Rejection	
				; FILE REFERENCE: UCSF-090	
				; CURRENT APPLICATION NUMBER: US/09-310,187A	
				; CURRENT FILING DATE: 1999-05-12	
				; NUMBER OF SEQ ID NOS: 3	
				; SOFTWARE: FastSEQ for Windows Version 4.0	
				; SEQ ID NO: 1	
				; TYPE: PRT	
				; ORGANISM: Homo sapiens	
				; LENGTH: 1939	
				; US-09-310-187A-1	
				Query Match 22.1%; Score 1191; DB 4; Length 1939;	
				Best Local Similarity 35.6%; Pred. No. 9.6e-104; Matches 303; Indels 64; Gaps 18;	
				Matches 281; Conservative 142; Mismatches 303; Indels 64; Gaps 18;	
Qy		4 RASALGGDGVRTVME----SALTARDRV-----GQDFVILLENFTSEAAFFENLR 49		; 4 RASALGGDGVRTVME----SALTARDRV-----GQDFVILLENFTSEAAFFENLR 49	
Db		48 KAKILSRREGGVIAETENGKTVTVKEDQVLOQNPPPKFDKIQDMAMU-TFLHBPVLNLR 106		; 48 KAKILSRREGGVIAETENGKTVTVKEDQVLOQNPPPKFDKIQDMAMU-TFLHBPVLNLR 106	
Qy		50 ERFRENLIYTIGPVVVSVPYRDLQIYSSROHMERGVGSYEVPHFLFAVADTYVRLR 109		; 50 ERFRENLIYTIGPVVVSVPYRDLQIYSSROHMERGVGSYEVPHFLFAVADTYVRLR 109	
Db		107 ERYAAWMIYTISGLFVTVNPKLWVYNAEVVAAVTRGKSERAPPHFISFSDNAYQYM 166		; 107 ERYAAWMIYTISGLFVTVNPKLWVYNAEVVAAVTRGKSERAPPHFISFSDNAYQYM 166	
Qy		110 TERRDQAVMISGESEGGKTEATKRLQYAFETCPAERG-----GAVRDRLLQSNP 160		; 110 TERRDQAVMISGESEGGKTEATKRLQYAFETCPAERG-----GAVRDRLLQSNP 160	
Db		167 TDRENSQILITGESEGGKTVNTKRVYQFNSIAIGDRGKDNANANKTGILEDQIYQNP 226		; 167 TDRENSQILITGESEGGKTVNTKRVYQFNSIAIGDRGKDNANANKTGILEDQIYQNP 226	
Qy		161 VLEAFGNAKTLRNDNSRFGKMDYQDFDKQAPVGCHILSTYLEKSRVHQNHRNFHV 220		; 161 VLEAFGNAKTLRNDNSRFGKMDYQDFDKQAPVGCHILSTYLEKSRVHQNHRNFHV 220	
Db		227 ALEAFGNAKTVRNDNSSRFGKFIRIFGATKLASDIEYLLEKSRVIFOLKAERNYHI 286		; 227 ALEAFGNAKTVRNDNSSRFGKFIRIFGATKLASDIEYLLEKSRVIFOLKAERNYHI 286	
Qy		221 FYQLIIGEGEBTLRIGLERNPOSTYLVRGQCAKWSSTINDSKDWKVMRALKSVIDFT 280		; 221 FYQLIIGEGEBTLRIGLERNPOSTYLVRGQCAKWSSTINDSKDWKVMRALKSVIDFT 280	
Db		287 FYQILSNKCPEDLDMVLTNPYDZAFVPSQZE-VSVAISIDSEEIMATSDAFVLTGFTSE 345		; 287 FYQILSNKCPEDLDMVLTNPYDZAFVPSQZE-VSVAISIDSEEIMATSDAFVLTGFTSE 345	
Qy		281 EVDLISIVASVILHGNINHFAADE-DSNAQVTTENQKLYLTRLVEGTILREALTHRKI 339		; 281 EVDLISIVASVILHGNINHFAADE-DSNAQVTTENQKLYLTRLVEGTILREALTHRKI 339	
Db		346 EKAGVYKLTGAIMHGNMVKQKQREEQAPDGTDEDADSAYLGMJINSADILKGCHPRV 405		; 346 EKAGVYKLTGAIMHGNMVKQKQREEQAPDGTDEDADSAYLGMJINSADILKGCHPRV 405	
Qy		340 IAKGEEPLLSPNLNEQAYARDALAKAVYSRFTFTVNLVRKINRSLASKDAESEPSWRSTTVLG 399		; 340 IAKGEEPLLSPNLNEQAYARDALAKAVYSRFTFTVNLVRKINRSLASKDAESEPSWRSTTVLG 399	

APPLICANT: Matsuda, Yuzuru
 APPLICANT: Takahashi, Katsuhito
 APPLICANT: Sugihara, Michihiko

TITLE OF INVENTION: RECOMBINANT DNA COMPRISING DNA CODING FOR MYOSIN HEAVY CHAIN SML ISOFORM INSERTED INTO VECTOR DNA, MICROORGANISM CARRYING THE RECOMBINANT DNA, AND AN AGENT FOR TREATMENT OF ARTERIOSCLEROSIS COMPRISING THE RECOMBINANT DNA

FILE REFERENCE: 07898-013001

CURRENT APPLICATION NUMBER: US/08/875,435B

PRIOR APPLICATION NUMBER: PCT/JP96/00134

PRIOR FILING DATE: 1997-07-25

NUMBER OF SEQ ID NOS: 5

SEQ ID NO: 3

LENGTH: 1972

TYPE: PRT

ORGANISM: Mus musculus

US-08-B75-4351-3

Query Match 21.7%; Score 1169.5; DB 4; Length 1972;
 Best Local Similarity 29.8%; Pred. No. 1..1e-101; Mismatches 196; Indels 165; Gaps 26;
 Matches 306; Conservative 196; Mismatches 359; Indels 165; Gaps 26;

QY 40 SEAFIENRRRFENLITYIGPVLYSPNYPDQIYTSRHFMYRGYSFYEVPHILFA 99
 DB 97 NEASVHNIRERYFSGLIYQDQVYKLPISSEKIVDYMKGKRRHMPHYA 156

QY 100 VADTVYRALRTERDQAVMISGSGAGKNEATKRLQFYAETCPAPERG-----GAVR 152
 DB 175 IADTAYRSMNQDREDSQSLCTGBGAGKENTQKVIQIA-VVASSHKGKQDSSITGEL 215

QY 153 DRLLQSNPYLEAFGNAKTLRNDNSRSRECKYMDYQDFDGKAPVGHILSYLLEKSRVHQN 212
 DB 216 KQLLQANPYLEAFGNAKTVKNDNSRSRGFIRNFDTGTYGANTIEYLLERSKRAIRQA 275

QY 213 HGERNFHIVYQOLLEGEEFTLRLIGLEBPNQSYLYVKQCAKSSINDSDWKRWMLA 272
 DB 276 RDEETFH1FYYLLAGAKERKMSDILLE_SFNSNTYFLNSG-FVPIPAQODDENQETEAM 333

QY 273 SVIDFTEDLISIVASVHLGNIHFAADEDSN-AQVTTENQKVLTRLGVEGFTLRL 331
 DB 334 SINGFNEEFOALALKVSSVLQGINIVEPKERNIDQASMPDNTAAQKVCHLVINVYDFT 393

QY 332 EALTHRKTIAKGEELLSPINLEQAYARDALAKAVYSEFTWILVRKINRSLASKDAESP 391
 DB 394 RALITPRTRKVGRDVKQAKTQEQADEFATEALARATYERFLWTSRVNKJALKTHRQGAS 453

QY 392 WRSTTIVGLIDTYGEVYQHNSSEQFCNYCNEKLNQOLFIELTTLKSOBEYDAEGIASEP 451
 DB 454 F----LGLDLZAGFEIPEVNFSPEQLCINTNEYNEKLNQOLFIELTTLKSOBEYDAEGIASEP 508

QY 452 VQY-FNNKLIQDIVEEKK--GTTISLDECHLRGEATDLTFLKEDTKEPHPHFLTHK 508
 DB 509 IDEGLDLOPSIELLERPNNPGVIALLDECWEP-KATDKSFWKLCKSEQGNHPKF--- 563

QY 509 LADQKTRKSLDRGFRFLHYAGEVITYSYTGFLDKNDLFLRNKLNKETMCSMNPIMAQCF- 567
 DB 564 --QKPKQDKEKFSTIHYAGKVDYNA8M1TKNMDPLNDNTLNSASSDKFADLWK 620

QY 568 -----DKSELSDKKRP-----EVATQFKNLLQLVETLRSRKEPAYFRCK 608
 DB 621 DVDRIVGQDQAMRTESSPSASKTKGMFRTYGQLYKEQGLKLMATRNITANFRCII 680

QY 669 PNDAKQPSRDEVLRHOKYLGMLMENLRVRAGFAYRKYKSLCPETWPMWA 668
 DB 681 PNEHKRSKQDLDLVLQERQNCVLEGIRICQGPFRVTFQREYELAANAATPKGF 740

QY 669 GRPDGIVAVLVRHGLGYKBEYKMGRTKIFIREPKTLEFATEDSLEVRQSLATKIQAAWRG 728
 DB 741 MDGKQACTLMIKALELDNLRYGOSKIFR-TGVLAHLEERDLKTDVIMAFOAMCRG 799

QY 729 FHWROKELRVKRSACIQC-----SWWR-----GTL 753
 DB 800 YLARAKAFTERQROQLTAMKVIQAYLKLRNQCMWRLFTKVKPLQVTRQEEMQAKEE 859

QY 754 GRRKAARKKWAAT-IRRJRGFLRHSRCPENAEFLDHRASFLINRQLPRVNLDT 812
 DB 850 EMQKITERQQAETPELKELEQ---KQTLAEEKTLQEQLQATEL----- 902

QY 813 SWPTTPPAPLARESPLRRELCEMKNMVKYCRSISPEWKQOLOQKAVASELFKGKDDNPQ 872
 DB 903 -----YAESEEMRVLAAK-----KOBLEE--ILHE----- 926

QY 873 VPRFLISTRGLTBEISPRVQSLGSEPIQAYAVPVVKDRKGKYPKPRLLTPSAVVIE 932
 DB 927 -----MEARLLEEEDRRQOQA-----ERK-KMAQOMDLEEQ--LEE 961

QY 933 DAKVQKRDYANITG-IVSVELSDSFLVHQREDNIQKGDVVLQSDHIVIETLTQKALSA 991
 DB 962 EEARQKQLOKEXTAEAKKLEDDLYWDDQ--NSKLSKERKLEEVSDLTNLAEEL 1019

QY 992 DRVNNI 997
 DB 1020 EKAKNL 1025

RESULT 4
 US-09-976-594-507
 Sequence 507, Application US/09976594
 Patent No. 6673549
 GENERAL INFORMATION:
 APPLICANT: Furtress, Michael
 INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
 FILE REFERENCE: PA-0041 US
 CURRENT APPLICATION NUMBER: US/09/976,594
 CURRENT FILING DATE: 2001-10-12
 PRIORITY NUMBER: 60/240,409
 PRIORITY NUMBER: 2000-10-12
 NUMBER OF SEQ ID NOS: 1143
 SOFTWARE: PERL program
 SEQ ID NO: 507
 LENGTH: 1285
 TYPE: PRT
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc_feature
 OTHER INFORMATION: Incyte ID No. 6673549 6301537CD1
 US-09-976-594-507

Query Match 21.3%; Score 1150.5; DB 4; Length 1285;
 Best Local Similarity 34.0%; Pred. No. 3.5e-100;
 Matches 284; Mismatches 284; Indels 8; Caps 20;

QY 38 ETSEAFATENRERRENLYTIGGLYLYSTNPYRDL-QIYSRQHMRYRGYSFYEVPPH 96
 DB 67 YLINEATLHNKVRDQYKTYVANILANPYYFIPKVKYSEAKSKYQCKSLGTRPBP 126

QY 97 LFPAVADTVYRALRTERDQAVMISGGAGKTEATRLLQFYAETPAPBGGAVDRL 156
 DB 127 VFAIAKQAFRDQKVLMSQSIIVSGSGAGKTENYKFLVRLYTESYGT--GQDIDRIV 183

QY 157 QSNPVLEAFGNAKTLRNDNSRSRGCTMDVOFDKGAPVGGHILSYLLEKSRVHONHGER 216
 DB 184 BANPLBEAFGNAKTLLRNDNSRSRGCTMDVOFDKGAPVGGHILSYLLEKSRVHONHGER 216

QY 217 NFHVETOLLEGEGEETIRRLGLERNQSYSLYVKG-----QCAK 255
 DB 244 NYHIFYRLCAGASEDIREKHL-----SDPNFRVNNNSRGKEVEIHNEKSSVGGFVSHYLEKSRVHQGKEER 243

QY 256 VSS----INDKSDWVMRKALSVIDFTEDVEQDLSIIVASVHLQHNIHFADEDNAQV 310
 DB 303 AGSMKUDPLDDHGDFFRMCTAMKKLGDEEKLDFRVAQVLHGNIDFEEASTSGGC 362

Qy 311 TTEENQ---LKYLTTRILGVGGTTLREALTHRKII-----AKGEELLSPNLNEQAAAYARDA 361
 Db 362 NIKNKSAQSLEYCAELLGQDDDRSLTTRMLTTAGTGTIVKPLVQBAANNRDA 422
 Qy 362 LAKAVYSRSTFTMLVRKINRSASKDAEESPNSRSTTVLGLDLYGFVPHNSFEQFCINY 421
 Db 423 LAKTVTISHLFDHVNRYNQCF -----PFETSSYFIGVLDAGFFYFEHNSFEQFCINY 475
 Qy 422 CNEKLUQQLFIELTLKSBOQEYEAEGIAWPEQYNNKICLIVEEKFKGTLISLDEBCLR 481
 Db 476 CNEKLUQQLFENRTEKBEQELYQREGICUNEVHYDNCIDLEAKLWGLDILDEENRL 535
 Qy 482 PGEATDLTLEKLEDTYKPHPHFLTHKLADQKTRKL-----DEGEFLRLHYAGEVTVSTVGP 539
 Db 536 P-QPSDQHFTSAVHQKEFTLFRNLIKETMOSMNPNIAQCFDKSELDKCRPE -----TVATQFMSLILQ 593
 Qy 540 LDKNNDLFLFRNLKETMOSMNPNIAQCFDKSELDKCRPE -----TVATQFMSLILQ 591
 Db 594 VEKNNDALHMSLESLICESRDKFIRELFEESSTNNNNDKTKQAGKULSFISVGNKFQTLNL 653
 Qy 592 IVEILRSKEPYTRCKPKNDAKQPGFDEVILRHQVKYGLMENLVRVRAFGAYRKYEA 651
 Db 654 LLDKGKESTGASTTRCKPKNLMTSHFEGAQQLSQEQCSEMVSLDMQCGYSPRSFHE 713
 Qy 652 FLQRYKSLCPETWPMMHARGPQDGVALVRLHIGYKPEBEYKNGRTKCIPR-----FPKTLF 705
 Db 714 LYNNMKYKMPD---KLARLDPFLCKALFKALGLENNDYKFOLTKVFFRPKSFKAEDQTMK 771
 Qy 706 ATEDSLEVRROSLATKIQ -----AAVRFHM-RQKFPLRK-----RSAI C1QSWWRGTLG 754
 Db 772 SDPDHL---AEVLKRVNHWLTCSRMKVQCSLWSVILKONKIKYRAECL----- 818
 Qy 755 RRKAARKRKAQQTIRRLRFLRSPR 782
 Db 819 KMQKTRMMLCKR-----RHKPR 836

RESULT 5
 US-09-147-404-1
 / Sequence 1, Application US/09147404
 / Patent No. 6326163
 / GENERAL INFORMATION:
 / APPLICANT: FORSMANN, WOLF-GEORG
 / APPLICANT: RAIDA, MANFRED
 / APPLICANT: BRENNER, BERNHARD
 / APPLICANT: NIER, VOLKER
 / TITLE OF INVENTION: A METHOD FOR THE DIRECT DIAGNOSTIC DETECTION OF
 / TITLE OF INVENTION: GENETICALLY CAUSED PATHOGENIC POINT MUTATIONS
 / FILE REFERENCE: 10496/P63231US0
 / CURRENT APPLICATION NUMBER: US/09/147,404
 / NUMBER OF SEQ ID NOS: 3
 / SEQ ID NO 1
 / LENGTH: 1120
 / TYPE: PRT
 / ORGANISM: Homo sapiens
 / FEATURE: Glu or Lys
 / NAME/KEY: MOD RES
 / LOCATION: (26)
 / OTHER INFORMATION: "Xaa" represents Ala or Val
 / NAME/KEY: MOD RES
 / LOCATION: (59)
 / OTHER INFORMATION: "Xaa" represents Val or Ile
 / NAME/KEY: MOD RES
 / LOCATION: (143)
 / OTHER INFORMATION: "Xaa" represents Arg or Gln
 / NAME/KEY: MOD RES
 / LOCATION: (249)
 / OTHER INFORMATION: "Xaa" represents Arg or Gln
 / NAME/KEY: MOD RES
 / LOCATION: (256)

OTHER INFORMATION: "Xaa" represents Glu or Glu
 / NAME/KEY: MOD RES
 / LOCATION: (403)
 / OTHER INFORMATION: "Xaa" represents Arg, Gln, Leu or Trp
 / NAME/KEY: MOD RES
 / LOCATION: (453)
 / OTHER INFORMATION: "Xaa" represents Arg or Cys
 / NAME/KEY: MOD RES
 / LOCATION: (513)
 / OTHER INFORMATION: "Xaa" represents Phe or Cys
 / NAME/KEY: MOD RES
 / LOCATION: (584)
 / OTHER INFORMATION: "Xaa" represents Asn or Ser
 / NAME/KEY: MOD RES
 / LOCATION: (587)
 / OTHER INFORMATION: "Xaa" represents Asp or Val
 / NAME/KEY: MOD RES
 / LOCATION: (602)
 / OTHER INFORMATION: "Xaa" represents Asn or Ser
 / NAME/KEY: MOD RES
 / LOCATION: (605)
 / OTHER INFORMATION: "Xaa" represents Val or Met
 / NAME/KEY: MOD RES
 / LOCATION: (615)
 / OTHER INFORMATION: "Xaa" represents Lys or Asn
 / NAME/KEY: MOD RES
 / LOCATION: (716)
 / OTHER INFORMATION: "Xaa" represents Glu or Arg
 / NAME/KEY: MOD RES
 / LOCATION: (719)
 / OTHER INFORMATION: "Xaa" represents Arg or Trp
 / NAME/KEY: MOD RES
 / LOCATION: (723)
 / OTHER INFORMATION: "Xaa" represents Arg or CyB
 / NAME/KEY: MOD RES
 / LOCATION: (731)
 / OTHER INFORMATION: "Xaa" represents Pro or Leu
 / NAME/KEY: MOD RES
 / LOCATION: (736)
 / OTHER INFORMATION: "Xaa" represents Ile or Met
 / NAME/KEY: MOD RES
 / LOCATION: (741)
 / OTHER INFORMATION: "Xaa" represents Glu, Arg or Trp
 / NAME/KEY: MOD RES
 / LOCATION: (778)
 / OTHER INFORMATION: "Xaa" represents Asp or Gly
 / NAME/KEY: MOD RES
 / LOCATION: (797)
 / OTHER INFORMATION: "Xaa" represents Ala or Thr
 / NAME/KEY: MOD RES
 / LOCATION: (876)
 / OTHER INFORMATION: "Xaa" represents Arg or His
 / NAME/KEY: MOD RES
 / LOCATION: (908)
 / OTHER INFORMATION: "Xaa" represents Leu or Val
 / NAME/KEY: MOD RES
 / LOCATION: (949)
 / OTHER INFORMATION: "Xaa" represents Glu or Lys
 / US-09-147-404-1

Query Match 21.2%; Score 1146; DB 4; Length 1120;
 Best Local Similarity 34.9%; Pred. No. 7.4e-100;
 Matches 275; Conservative 140; Mismatches 310; Indels 64; Gaps 19;

Qy 4 RASALGSDGVRYTIME---SALTARDV-----GVQDFVLLNFTSEAAFLENLR 49
 Db 48 KAKIVSREGGKXTAETBYGKTVVKEQDMAMM-TELHPAVLYNLK 106

1036 EQHFLHLRQASVIIQRFWRNYLNUOKVDAQKDAFWMASAALQASWRAHLERQRML 1095
 737 RVKRSATC1QSWRGTGRRKAA---KRWAA----OTIRLJ----RGFLR 778
 1096 ELRAAIVI1QONKWRDYYRRHMAA1C1QARNKAYRESKRYQEQRK1111QSTCRGFRAR 1155
 779 HSPRC----PENAFFLDHYRASFLINLRQPLRNPVLDISWMPPTPALLESEL 828
 1156 QRFKALKEQRDRETKBEGG--LNVK1GGS1EIQGSDPSEWEDCFDNR1KAIECKSVI 1213
 829 RELCMNMWVYKCRS1SPENKQLOQKAVASE1FKGKDNYPQSVPRLFSTRLGTEES 888
 1214 ESNTRSSYSDCLKESPKNQERAGQSQGYDL--QED----VLYRER---- 1255
 889 PRVLQSLGSEPTQYAVPVVXIDRKGYKPRQLLITPSAVIVEDAKVVKORIDYANLTG1 948
 1256 PRSLEDLHQKXVGRA---KRE3RMRMFLLEQA1FSLLELKVR----SLGG1 1298
 949 SVSSLSDSLFVLYHQAEDNQKQGDVV--LQSDH----VIEUTJKTALSADRN 995
 1299 SPS----EDRWRWSTLVEPG1QSPRTGTPDSESSQGSLLELYSEQSQSKLE 1345
 996 NININGSGITF 1006
 1346 SVISDEGDLQF 1356

RESULT 7
 US-09-883-134-4
 ; Sequence 4, Application US/09883134
 ; Patent No. 6511840
 ; GENERAL INFORMATION:
 ; APPLICANT: Walke, D. Wade
 ; APPLICANT: Scoville, John
 ; APPLICANT: Donoho, Gregory
 ; APPLICANT: Turner, C. Alexander Jr.
 ; APPLICANT: Mathur, Brian
 ; APPLICANT: Mathur, Daniel
 ; APPLICANT: Fiddle, Carl Johan
 ; TITLE OF INVENTION: No. 6511840 el Human Kinase Proteins and Polynucleotides Encoding
 ; FILE REFERENCE: LEX-0193-USA
 ; CURRENT APPLICATION NUMBER: US/09/883,134
 ; CURRENT FILING DATE: 2000-06-15
 ; PRIOR APPLICATION NUMBER: US 60/211,572
 ; PRIOR FILING DATE: 2000-06-15
 ; NUMBER OF SEQ ID NOS: 11
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 4
 ; LENGTH: 1236
 ; TYPE: PRF
 ; ORGANISM: homo sapiens
 US-09-883-134-4

Query Match 20.0% Score 1078.5; DB 4; Length 1236;
 Best Local Similarity 33.0%; Pred. No. 2.5e-93; Indels 83; Gaps 17;
 Matches 260; Conservative 161; Mismatches 284; Indel 83; Gaps 17;

QY 31 DFLLENFTSEAFLN1RRREFRNLLTYTIGPV1VSNPYRDLQIYSRQHMERYRGYSF 90
 DB 335 DLVNL-EVLDDETLHQKQRYADLLTYTGVGDL1A1NPQNU1S1SPQFSR1YHGYTR 393
 QY 91 YEVPPHFLPAYADTYTVALTERDQAVM1S6GAGKTECATR1LQF1YETCPAPERGA 150
 DB 394 ASNPHF1EASADAAYQCMVTL1SKQOCIV1SGESSGKTCESAHL1VQH1-TFLGKANOT 451
 QY 151 VDRDLQSNFVNLBAGFNA1TLRNDS1SRGKYMDFQDFD1KGA1PVGQH1SYL1BKSRYVH 210
 DB 452 LREK1QVNN1S1VEAFGNS1STAINNS1SRGK1YEMMFPTGVNGAR1S1V1E1BKSRYK 511
 QY 211 QNHGERNFRVYFQLEG-GSEET1LRLGB-ERNPQSYLYLVKGOCAKVYS1NDKSDNKM 268

512 QAARERKNNFH1F1YY1YAGL1HHQKK1LSDFL1PEEKPPRTYADETGRV--MDITSKESYRRQ 569
 738 RKAIS----VDFDDEVEDL1L1VAV3UHGNHFAA---DEDSNAQVTT1EQLKYL 320
 DB 570 FEATGHCFR1F1GFTDKEYVS1VY1LAG1LNIGNIEFA1SSQHOTDKSEVPA1ALQNAA 629
 QY 321 RLUJVEGT1REALTHRK1IAKGHELLS1PLN1QAY1DALARAKAVYSS1FTW1LVRK1NR 380
 DB 630 SVL1SPEEQLA1SHC1V1TRETT1RANTV1D1AD1DAM1A1Y1GRLFSW1VNR-IN 688
 QY 381 SLAS1DAE1SPSWRSTV1L1D1YF1EY1QHNSF1E1Q1C1Y1C1N1E1Q1Y1C1V1F1 440
 DB 689 T1LQD1C1T1C1S1AG1G1M1Y1G1D1F1G1F1F1Q1N1A1E1Q1Y1C1V1F1 748
 QY 441 EYAE1G1M1P1Q1Y1F1N1K1L1D1Y1E1K1F1G1L1Y1S1D1E1C1R1P1E1A1T1F1L1E1D1Y1K1P1 500
 DB 749 EYQEBG1DA1P1V1E1D1N1P1L1D1M1F1L1Q1P1G1L1A1D1E1S1R1P1F1D1N1L1R1-B06
 QY 501 HPHFL1THKLADQ1TK1S1L1D1G1F1R1L1D1P1N1K1T1M1S1M1N1 560
 DB 807 CKYFW1R1P1K1V1C1------PS1QH1Y1G1K1V1D1A1S1G1Y1E1K1D1T1P1A1V1V1P1T1N1 857
 QY 561 P1NAQ1C1F1-----K1S1L1D1K1P1R1K1P1 578
 DB 858 K1L1Q1Q1F1S1P1L1T1K1G1N1L1Q1T1R1A1T1V1R1P1H1P1E1T1M1R1- 916
 QY 579 ETYAT0F1K1L1Q1V1E1L1R1S1K1P1A1Y1T1C1K1P1N1D1A1Q1P1R1E1V1R1Q1Y1G1M1N1R1 638
 DB 917 QTVASYF1Y1S1M1D1L1K1N1V1G1Q1H1F1V1C1K1P1N1D1R1S1T1L1E1V1S1 976
 QY 639 RRAFGEY1R1K1Y1E1F1Q1Y1K1S1L1C1P1T1W1N1W1A1R1Q1D1G1Y1A1V1R1H1G1Y1P1B1E1K1T1F1I1 698
 DB 977 RROQY1S1H1L1F1E1F1Y1X1Y1L1A1T1H1Q1L1A1T1P1K1S1C1A1L1E1F1S1V1A1L1E1F1S1 1033
 QY 699 RFPK1T1F1A1T1S1L1E1V1R1S1L1-ATK1Q1A1W1R1G1P1H1W1Q1P1K1P1Y1K1---RSA1C1Q1S1W1R1G1T1 752
 DB 1034 KY---Y1H1E1Q1N1L1R1E1V1G1V1V1Q1A1Y1T1K1G1W1G1A1Y1Q1S1W1R1G1Y1 1089
 QY 753 LGRR1AAK 760
 DB 1090 DARR1F1KK 1097

RESULT 8
 US-08-938-105-3
 ; Sequence 3, Application US/08938105
 ; Patent No. 6353151
 ; GENERAL INFORMATION:
 ; APPLICANT: Leinwand, Leslie A.
 ; TITLE OF INVENTION: TRANSSENIC MODEL FOR HEART FAILURE
 ; NUMBER OF SEQUENCES: 3
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Sheridan Ross P.C.
 ; STREET: 1700 Lincoln St., Suite 3500
 ; CITY: Denver
 ; STATE: CO
 ; ZIP: 80203
 ; COMPUTER READABLE FORM:
 ; COMPUTER: Floppy disk
 ; COMPUTER: IBM PC Compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent in Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/938,105
 ; FILING DATE:
 ; CLASSIFICATION:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Crook, Wanneil M.
 ; REGISTRATION NUMBER: 31,071
 ; REFERENCE/DOCKET NUMBER: 3595-4
 ; TELECOMMUNICATION INFORMATION:

TELEPHONE: (303) 863-9700
 TELEFAX: (303) 863-0223
 INFORMATION FOR SEQ ID NO: 3:
 LENGTH: 1886 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-938-105-3

Query Match, Score 1018; DB 4; Length 1886;
 Best Local Similarity 32.1%; Pred. No. 3.2e-87;
 Matches 253; Conservative 136; Nsmatches 286; Indels 114; Gaps 17;

4 PASALGSDGTRVTE----SALTARDRV-----GQDFVLLNFNTSEAAFIENR 49
 47 KAKIVSREGGKVTAETENGKTVTIVEDQMQNQPKFDIEDMAML-TFLHEPAVLNPK 105
 QY 50 RRFFENLITYIGPVLVSPYRDLQIYTSRQHMERGTSFYEYPPHFAVADTYVRAAL 109
 Db 106 ERYAAAMMITYSGLPCVTAQPKWLPVNAEVVAAYRGKCRSEAPHISISDNAYQML 165
 QY 110 TERRDQAVMISGEGAGKTBATKQIQLQYAEETCPAPERG-----GAVRDELLQSNP 160
 Db 165 TDRENSQSLITGEGAGKTVNTKRVQFASIAAIGDRSKKDNPNANKTLEDQIQQNAP 225
 QY 161 VLEAIGNATKLNRNDSSRFGKYMVDQFDFKGAPVGHISYLLESRSRVTHQNHGERNFV 220
 Db 226 ALEAEGNAKTVNRNDSSRFPSKFRITHFGATGKLSASADIETYLLERKSRTVIFQLXERNTYI 285
 QY 222 FYQLEGGGBETLRLGLERBNPQSYLYKQOCAXVSSINDKSDWKVMKALSVIDETED 280
 Db 286 FYQILSNKREPELDMLLVITNPYDFAVSGE-VSVASVDDSEELLATASAEDVLGFTAE 344
 QY 281 EVEDLISIVTASVHLUGNTHAFAADE-DSNAQVTTENOLKYLTRLLGVETGTLRALTHRKI 339
 Db 345 EKAGYVKGTCATIMHGXMFKQKOREQEQFDGTEDAKDSAYLMLGNSADLQKLCHFQV 404
 QY 340 IAKGEELLSPLNLIQQAAYARDALKAVIERTFTWLRKINRSLASKDAESPNSRSTVIG 399
 Db 405 KVGNEYXVTKQSVQYVYSGALAKSVYKEMNFMNVTRINATLETKOPPQ-----YPIG 458
 QY 400 LLDIYGFYEQHNSPEQFCINCNCEKLQQLFIELTLKSEQQEYEAEGLAMEPVQYFNKNI 459
 Db 459 VLDIAGFE-----466
 QY 460 ICDLIVEEKFGIIISLDEBCLRPGEATDILTFLEKLEDTVKPHPHFLTHKLADQKTR--KS 517
 Db 467 ISSUEPHLKGNGIMSTLEBEMFP-KATDNTFRKLYD-----NHLGKSNNFQKRNTKG 519
 QY 518 LDREGEFRLLHYAGEVTYSYTGFLDKNDLFLRNLKETMCSMNPIMACQFDSELSD-- 574
 Db 520 KQEAHFSLHYAGTVDYNLIGWLEKKNODPLNETVGLYQKSSLKLMATLFSYTASADTG 579
 QY 575 -----KRP--ETVATQFRNSSLQLEVILSKEPAPYTRCTPKNDAKQPGFDEVLR 624
 Db 580 SGKCGGGKKGSSPOTVSALHRENLNKLMNLRTPHFVRCLIPNERKAPGMDNPLVM 639
 QY 625 RQVXYLGMENLVRRAFGAYRKYEAFLQRYKSLCPETPMWAGRQD--GVAVLVRH 681
 Db 640 HQLRCNGVIEGIRLCKGPNRFLYQDPRFRILNPAIP--EGQFIDSGKGAEKLG 697
 QY 682 LGYKPEEYNGRCKLIFIREPKTLFATEDSLEVRQSLATKIQIAWGRGTHWQKFLRV-K 739
 Db 698 LDIDHNYQKFHTKVFK-AGLGLLEBMRDERSRITRQARGOLMREFFKNNVER 756
 QY 740 RSAICIQSW 748
 Db 757 RDALLVQW 765
 QY 777 VLAISPEEQKTCWLLIASIVHLGAAGATKEAEAGRKQFARHEWAQKAAYLJGCSLEELS 370
 Db 325 -----VEGTILREALTHRK----SDWKVMRKALS 273
 QY 373 WLVRKLNRSASKDAEJPSPWSRSTTVGLLDIYGF-----VQHNSFEQFCINYNEKU 426
 RESULT 9
 US-09-866-108A-15753

Sequence 15753, Application US/09866108A
 Patent No. 6686188
 GENERAL INFORMATION:
 APPLICANT: GU, Yizhong
 APPLICANT: JI, Yonggang
 APPLICANT: PENN, Sharron G.
 APPLICANT: HANZEL, David R.
 APPLICANT: RANK, David R.
 APPLICANT: CHEN, Wensheng
 APPLICANT: SHANNON, Mark
 FILE REFERENCE: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
 CURRENT APPLICATION NUMBER: US/09/866108A
 CURRENT FILING DATE: 2001-05-25
 PRIOR APPLICATION NUMBER: US 60/207,456
 PRIOR FILING DATE: 2000-05-26
 PRIOR APPLICATION NUMBER: GB 24263. 6
 PRIOR APPLICATION NUMBER: US 60/236,359
 PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: PCT/US01/00666
 PRIOR FILING DATE: 2001-11-30
 PRIOR APPLICATION NUMBER: PCT/US01/00667
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00664
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00669
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00665
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00668
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00663
 PRIOR FILING DATE: 2001-01-30
 Remaining Prior Application data removed - See File Wrapper or PALM.
 NUMBER OF SEQ ID NOS: 15755
 SOFTWARE: Acenica Sequence Listing Engine
 Patent No. 6686188
 SEQ ID NO. 15753
 LENGTH: 1695
 TYPE: PRT
 ORGANISM: Mus musculus
 US-09-866-108A-15753

Query Match, Score 10.7%; Score 575.5; DB 4; Length 1695;
 Best Local Similarity 23.7%; Pred. No. 5.3e-45;
 Matches 201; Conservative 159; Nsmatches 325; Indels 163; Gaps 25;

QY 38 FTESEAFTENLRRFRENLYTIGPVLVSYNPYRDLQIYTSRQHMERGTSFYEYPPHL 97
 Db 75 YINNESVIHTURQYRGLSLLTRGRAPVAVRDRLLQ 157
 QY 98 PAVADTVYRALKTERDQAVMISGEGAGKTEATRKLQYFAYETCPAPERGAVRDRLLQ 157
 Db 135 YAVAQATYRAMLMSRQDQSTIVLGSSESSGKTSFQHIVQYLATIAGTSGTKVFSVWQIA 194
 QY 158 SNPVLEAFGNAKTLRNDNSREGKYMVDQFDEKGAvgGHTSILYLEKRSRVVHNGERN 217
 Db 195 LSTLLEAFGNSTMMPSATRFSQISLDFDQGOVASATQMLLEKLVRARRPBEAT 254
 QY 218 FHVFXQLEGGBEETLRLGLERNPQSYLYVKGOCAKVSSINDK----SDWKVMRKALS 273
 Db 255 FNVFYLLIACGATLPELHNHLARNVFGI----VPLSKPEEKORAAQFSKLQAAK 310
 QY 274 VDFTDEVEDLISIVASVHLG--NHFHAADEDSNAQVTTENQKYLTRLIG----- 324
 Db 311 VLAISPEEQKTCWLLIASIVHLGAAGATKEAEAGRKQFARHEWAQKAAYLJGCSLEELS 370
 Db 325 -----VEGTILREALTHRK----SALECEGMASGLYSELFT 372
 Db 371 SAIFKHOLKGTTLQRRTSFRGPEEEGLGEFTKL-----SALECEGMASGLYSELFT 423
 QY 373 WLVRKLNRSASKDAEJPSPWSRSTTVGLLDIYGF-----VQHNSFEQFCINYNEKU 426

NUMBER OF SEQ ID NOS: 15755 ; NUMBER OF SEQ ID NOS: 15755 ; NUMBER OF SEQ ID NOS: 15755 ;

SOFTWARE: Aemicica Sequence Listing Engine ; SOFTWARE: Aemicica Sequence Listing Engine ; SOFTWARE: Aemicica Sequence Listing Engine ;

Patent No: 6686188 ; Patent No: 6686188 ; Patent No: 6686188 ;

SEQ ID NO 15754 ; SEQ ID NO 15754 ; SEQ ID NO 15754 ;

LENGTH: 1581 ; LENGTH: 1581 ; LENGTH: 1581 ;

TYPE: PRT ; TYPE: PRT ; TYPE: PRT ;

ORGANISM: Homo sapiens ; ORGANISM: Homo sapiens ; ORGANISM: Homo sapiens ;

US-09-866-108A-15754 ; US-09-866-108A-15754 ; US-09-866-108A-15754 ;

Query Match 9.6% ; Query Match 9.6% ; Query Match 9.6% ;

Best Local Similarity 23.5% ; Best Local Similarity 23.5% ; Best Local Similarity 23.5% ;

Matches 190; Conservative 130; Mismatches 319; Indels 171; Gaps 22; ;

Qy 82 MERYRGVSYEVPPHLEAVADTYVRLRTERDQAVMISGSGAGTEATRKLQYAYET 141 ;

Db 1 MHMFQCRREIMMAPIHYAVQATAYZAMIMSRQDQSTILLGSSGSKTTSOHLVQYLATI 60 ;

Qy 142 CPAPERGGAVYDRDLIQLQSNPYLEAFGNAKTLRNDNSRSRGKYMDFQDFKGAPEVGCHILSY 201 ;

Db 61 AGISGNKVFSEVKWQALYLTEAEGNSPTLINGNATRFSQQLSLDQAGQVASSIQT 120 ;

Qy 202 LLEKRSVYHQNQHGENFHVEYVOLLEGGBEETLRLRQGLERNPOSYLYVKGQCAKUSSIND 261 ;

Db 121 LLEKRSVARRPASEATFENVYLLACGDDGTLRTEHLHNAENNYFGIVPLAKPEEKQKA 180 ;

Qy 262 KSDWKWKRKALSVIDTDEVEDLTLISIVASVHLIG -NIEHFAADEDSNAQVTTENQLKYL 319 ;

Db 181 AQQFSLQLQAMKVLGISPDBOKACMFILALIYH/GAAGATKERAFAEGRKOFARHWAQKA 240 ;

Db 320 TRLLQVEGTTLREALTHRKTIAKGEBELLSPNLHQ-----AAYARDALA 363 ;

Db 241 AYLLGQSLEELSSAFKHO - HKGGTGLQRSTSFRQGPEESGLGDTGPKLSALEBLEGMA 298 ;

Qy 364 KAVYSSSTFTWLRKVNRSASKDABEAPSWSSTTVLGLLDIYGFETFQHN-----SFEQF 417 ;

Db 299 AGLYSEFTLILVSNRALKS-----S0NLSLCSMIVDTPGQNPEQGGSGARSQFEEEL 352 ;

Qy 418 CINYCNBKLQQLFIELTKSEQEYEAEIGA-----WEPV-----QYFNKKLICDL 463 ;

Db 353 CHNYTQDRLQLFHRTFTVQBLERKKEENTELAFLDPLEPTDDSTAVDQASHQSLVRSL 412 ;

Qy 464 VE-EFKGKIIISLDEBCLRPOEATDLTFLKLED-----TVKRPHPHFL 505 ;

Db 413 ARTDEBARGLWLLWEEALVGASED-TILLERLFSSYYGPOBGGDKKGOSPLHSSKPHFILL 471 ;

Qy 506 THKLAQKTRKSLSLDRGEFLRHYACSEVTYSGTGFID -KONDLLERNLKETMCSSMNPIM 563 ;

Db 472 GHS-----HGTNWVEYNTVGMWNTYKONPAT-QNVRPLQDQORKII 512 ;

Qy 564 AQCF-----DKSELSDKK-----RPEVYATQKMSL 590 ;

Db 513 SNLFGRAGSATVLSGSIAGLEGGSQALRRATSNRKTFITGMVAVKKKSLC1QNLQVD 572 ;

Qy 591 QLVEILRSKSEPAYICIKP-----NDAKQPG - RFDEV 621 ;

Db 573 ALIDTJKSKSLHFEVCLPVAEGWAGEPRSSRVSSELDLPSGDHCEAGLQLQDVP 632 ;

Qy 622 LJRRQVYKLGMENIYRRAFGATRYKEAFLQYKSLCPEBTWPMWAGR -----PDGV 675 ;

Db 633 LJRTQLRGSFLDAMMYRQGPDMVSEPRRREDVLAFLHITKX -HGRNYIVTUDERRAY 691 ;

Qy 676 AVLVRHLGKYPKEEYMGRTKLFTRPKTLFATEDSLEVRROSLATKIOAWRGPHWROK 735 ;

Db 692 EELLELDLIEKSSCMGLSRVFR -AGTILARLBQSRDEQTSRNNTLFLQACRGYIAROEF 750 ;

Qy 736 LRVKRSAI --C1QS-----WNR 750 ;

Db 751 KKRKIQDLAIRCVQDKNICKGVDWPNK 780 ;

RESULT 11 ;

US-09-866-108A-15754 ;

Sequence 15754 ; Application US/09866108A ; Sequence 15754 ; Application US/09866108A ;

GENERAL INFORMATION ; GENERAL INFORMATION ; GENERAL INFORMATION ;

APPLICANT: GU, Yizhong ; APPLICANT: GU, Yizhong ; APPLICANT: GU, Yizhong ;

APPLICANT: JI, Yorggang ; APPLICANT: JI, Yorggang ; APPLICANT: JI, Yorggang ;

APPLICANT: PENN, Sharron G. ; APPLICANT: PENN, Sharron G. ; APPLICANT: PENN, Sharron G. ;

APPLICANT: HANZEL, David K. ; APPLICANT: HANZEL, David K. ; APPLICANT: HANZEL, David K. ;

APPLICANT: RANK, David R. ; APPLICANT: RANK, David R. ; APPLICANT: RANK, David R. ;

APPLICANT: CHEN, Wenshang ; APPLICANT: CHEN, Wenshang ; APPLICANT: CHEN, Wenshang ;

APPLICANT: SHANNON, Mark ; APPLICANT: SHANNON, Mark ; APPLICANT: SHANNON, Mark ;

FILE REFERENCE: AEMICICA-7 ; FILE REFERENCE: AEMICICA-7 ; FILE REFERENCE: AEMICICA-7

CURRENT APPLICATION NUMBER: US/09/8666,108A ; CURRENT APPLICATION NUMBER: US/09/8666,108A ; CURRENT APPLICATION NUMBER: US/09/8666,108A ;

PRIOR APPLICATION NUMBER: US 60/207,456 ; PRIOR APPLICATION NUMBER: US 60/207,456 ; PRIOR APPLICATION NUMBER: US 60/207,456 ;

PRIOR FILING DATE: 2000-05-26 ; PRIOR FILING DATE: 2000-05-26 ; PRIOR FILING DATE: 2000-05-26 ;

PRIOR APPLICATION NUMBER: GB 24263,6 ; PRIOR APPLICATION NUMBER: GB 24263,6 ; PRIOR APPLICATION NUMBER: GB 24263,6 ;

PRIOR FILING DATE: 2000-10-04 ; PRIOR FILING DATE: 2000-10-04 ; PRIOR FILING DATE: 2000-10-04 ;

PRIOR APPLICATION NUMBER: US 60/236,359 ; PRIOR APPLICATION NUMBER: US 60/236,359 ; PRIOR APPLICATION NUMBER: US 60/236,359 ;

PRIOR FILING DATE: 2000-09-27 ; PRIOR FILING DATE: 2000-09-27 ; PRIOR FILING DATE: 2000-09-27 ;

PRIOR APPLICATION NUMBER: PCT/US01/00666 ; PRIOR APPLICATION NUMBER: PCT/US01/00666 ; PRIOR APPLICATION NUMBER: PCT/US01/00666 ;

PRIOR FILING DATE: 2001-01-30 ; PRIOR FILING DATE: 2001-01-30 ; PRIOR FILING DATE: 2001-01-30 ;

PRIOR APPLICATION NUMBER: PCT/US01/00667 ; PRIOR APPLICATION NUMBER: PCT/US01/00667 ; PRIOR APPLICATION NUMBER: PCT/US01/00667 ;

PRIOR FILING DATE: 2001-01-30 ; PRIOR FILING DATE: 2001-01-30 ; PRIOR FILING DATE: 2001-01-30 ;

PRIOR APPLICATION NUMBER: PCT/US01/00664 ; PRIOR APPLICATION NUMBER: PCT/US01/00664 ; PRIOR APPLICATION NUMBER: PCT/US01/00664 ;

PRIOR FILING DATE: 2001-01-30 ; PRIOR FILING DATE: 2001-01-30 ; PRIOR FILING DATE: 2001-01-30 ;

PRIOR APPLICATION NUMBER: PCT/US01/00669 ; PRIOR APPLICATION NUMBER: PCT/US01/00669 ; PRIOR APPLICATION NUMBER: PCT/US01/00669 ;

PRIOR FILING DATE: 2001-01-30 ; PRIOR FILING DATE: 2001-01-30 ; PRIOR FILING DATE: 2001-01-30 ;

PRIOR APPLICATION NUMBER: PCT/US01/00665 ; PRIOR APPLICATION NUMBER: PCT/US01/00665 ; PRIOR APPLICATION NUMBER: PCT/US01/00665 ;

PRIOR FILING DATE: 2001-01-30 ; PRIOR FILING DATE: 2001-01-30 ; PRIOR FILING DATE: 2001-01-30 ;

PRIOR APPLICATION NUMBER: PCT/US01/00668 ; PRIOR APPLICATION NUMBER: PCT/US01/00668 ; PRIOR APPLICATION NUMBER: PCT/US01/00668 ;

Remaining Prior Application data removed - See File Wrapper or PALM.

RESULT 11 ;

US-09-866-108A-3 ; Sequence 3 ; Application US/09866108A

Patent No. 6686188
 GENERAL INFORMATION:
 i APPLICANT: GU, Yizhong
 i APPLICANT: JI, Yonggang
 i APPLICANT: PENN, Sharron G.
 i APPLICANT: HANVEL, David K.
 i APPLICANT: PANK, David R.
 i APPLICANT: CHEN, Wensheng
 i APPLICANT: SHANNON, Mark
 i TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
 i FILE REFERENCE: AEOMICA-7
 CURRENT APPLICATION NUMBER: US/09/866,108A
 CURRENT FILING DATE: 2001-05-15
 PRIORITY APPLICATION NUMBER: US 60/207,456
 PRIORITY FILING DATE: 2000-01-26
 PRIORITY APPLICATION NUMBER: GB 24263,6
 PRIORITY FILING DATE: 2000-10-04
 PRIORITY APPLICATION NUMBER: US 60/236,359
 PRIORITY FILING DATE: 2000-09-27
 PRIORITY APPLICATION NUMBER: PCT/US01/00666
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00667
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00664
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00669
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00665
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00668
 PRIORITY FILING DATE: 2001-01-30
 PRIORITY APPLICATION NUMBER: PCT/US01/00663
 PRIORITY FILING DATE: 2001-01-30
 Remaining Prior Application data removed - See File Wrapper or PALM.
 NUMBER OF SEQ ID NOS: 1575
 SOFTWARE: Aeomica Sequence Listing Engine
 Patent No. 6686188
 SEQ ID NO 3
 LENGTH: 2568
 i TYPE: PRT
 i ORGANISM: Homo sapiens
 us-09-b61-108a-3

Query Match 9.2%; Score 497; DB 4; Length 2568;
 Best Local Similarity 22.6%; Pred. No. 3.5e-37; Mismatches 439; Indels 280; Gaps 51;
 Matches 266; Conservative 194;

QY 29 VQDFVLLNPTSEAFIENLRRFRENLLTYTIGPVLVSYNPRYDLQIYRQHMERYRGV 88
 DB 573 VEDLASLIS-VNNESSVNLTLQRYKAQLHCTGPDLLVLP-RGPSSVAGKVPKGFRD 630

QY 89 SFYVYPHPFAVADTYRALRTERDQAMISGSGAGTEAKRLQFYAETCPAPERG 148
 DB 631 G---LPAHGSMAQRAYWALLQRDOSVALGRSGAGTTCCQVBLVGMAGSVD-G 686

QY 149 GAVDRLLQSNPVLLEAFGNAKTLERNDNSRFKYMVDQDFKGAQVGGHILSYLEKSR 208

DB 687 RVSTEKIRATFTVLAQFGSVMHSRSATRFSKMSLDFNATGRITAQQLTMILERSR 746

QY 209 VHQNFGERNPHVFYCOLLGEETLRLQLENRNPQSYLVLKGOCAYKVS1-----N 260

DB 747 ARQPGEGSNFLVFSOMLAGLDLDRTEMLH-----QMADSSFGMVGWSKPB 794

QY 261 DK---SDKVKMRKALSVLDFTEDEVEDLISIVASVHLGNTIHAADEDSNQVTTENOL 316

DB 795 DKQKAAAFAAQLGQAMMIGISESQRAYWRLAAYHGA-GACKVGRKQFMRFWMA 852

QY 317 KYLTRLQGVEGTIRE-LTH-RKII-----AKGEELSPNLQDARYARDL 362

DB 853 NYAAEALGGEYEELNTATTKHRLRQIQCMTGEISRWGIEDELTSSGK-M-TGVDVCYEGM 911

QY 363 AKAVSRTTMLVRKINRSLASKDAESPPWRSTVGLLDIYGREVQHN-----SFEQ 416

COMPUTER READABLE FORM:
 COMPUTER TYPE: Floppy disk
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/012,515A.
 FILING DATE:
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/360,144
 FILING DATE: 20-DEC-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Vincent, Matthew P.
 REGISTRATION NUMBER: 36,709
 REFERENCE/DOCKET NUMBER: APV-036-0.02
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 617-832-1000
 TELEFAX: 617-832-7000
 INFORMATION FOR SEQ ID NO: 12:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1809 amino acids
 TYPE: amino acid
 TOPOLOGY: Linear
 MOLECULE TYPE: protein
 US-09-012-515A-12

Query Match 3.0%; Score 160; DB 3; Length 1809;
 Best Local Similarity 19.1%; Pred. No. 3.0e-05; Gaps 46;
 Matches 193; Conservative 121; Mismatches 318; Indels 376; Gaps 46;

QY 137 FYAETCPAERGGAVR -DRLLQS-----NPVLAEGNAKTLRN---DNSS--- 177
 DB 382 FDAPEAPLPSKKAALTEVDRLLTESLDFDTASRILHPITRLDQSPELRSTAMDTLSSLV 441
 QY 178 -RFGKXMDVQDDFKGAPVGGHILSYLEKRSVHQH-----GERNFHVFY 222
 DB 442 FQLGKXQYQIFP-----MVNKVLVRHRINHQYDVLICRIVKGTYLADEEDPLY 492
 QY 223 Q-LLDGGEEFTLRLGLERNPQSYIYLVKQCAVSSINDSKDVKMRAKSLVDFTED 280
 DB 493 QHRMLRSGQDALSGPVETPMKCLH-----VSTINLQKANGAAR----- 534
 QY 281 EVEDLSSIVASVHLGNINHAADEDNSAQVTTENOLKVLTRLLGVETGTLREALTHRKT 340
 DB 535 -----VSKDDMILEWLRRL----- 547
 QY 341 AKGEELSPINLQEQAAYDALAKAVYSSRIFTWLRKINSLASLDAESPSWRSSTTVLG- 399
 DB : 548 -SLEL-----
 DB : 548 -SLEL-----
 QY 400 -----LLDTTYFEEVHNSFQFCINCYNERKLQQLF---TELTUKEQEEYAEGLIAMP 451
 DB 569 AYNPMARDL-----NAAFVSCWSELNDQQDELIRSSELNTSD-----IA-EV 613
 DB : 548 -SLEL-----
 QY 452 VQYFNNKKICDVLEEKFKGTLISLDE-----ECLURPGRATDLTFLKELEDTVLP 500
 DB 614 TQTLIN--LAEFMEDSKGPPLRDRNGTLLGEEAKCRAYARA---IHYKELFQKGP 668
 QY 501 HPHFL-----THKLADQTRKSLDRGEFLHAGEVTVSITGE----- 539
 DB 669 TPAILESLISINNKL-----QQPEAAAGYLEVAMKHF GELEQATWYEKLEWEDALVAYDK 725
 QY 540 -LDKNDLFLRNKETMCSNINPMA-----QCDFKSELSDKKRPTVATQFKNSL 589
 DB 726 KMDTNKD-----DPELMGMRCLAEGLGNGLHQOCCKWTLN-----DETQAKMARRA 777
 QY 590 LQLVEILRSKEPAYIRCICNDAKQGRFDEVLRHQ-----VYKLGMENLVR 639
 DB 778 AAAGGQWQWSMEEETCMIPRDTNGAFTAVLAIHQDIFSLAQCCIDARDLDAETTA 837
 QY 640 RAGFAYRKYEAFLQRYKSLCPETWPMWAGRQDGAVAVLVRHGYKPE--YKMGRIKI 696

Db 838 MAGESYSRAYGAMVS----C-----HMLSELEEVYQYKU----- 867
 Qy 697 FIRFPTLFLATEDSLEVRROSLATKIOAANRGEFHTRQKEFDRVKRAIC---IQWNRGFT 752
 Db 868 -----VPEREIRIQTWEELOGCITEWQKLMVRSLVVSPEHDMTW--- 913
 Qy 753 LGRIKAAKRKWAQQTIRRLRGFLRHSPRCPENA-FLDHDVRASFLLNURROLPRNVL 811
 Db 914 -----IYASLGKSCRLALAKTLYLILLGD--FSRQLD 946
 Qy 812 TSMPTPPALREASFLRELCKNMVWYKCRSIS-----EMKQOLQKAYASEIFK 863
 Db 947 HPLPVPHQVTYA-----YMQN-WKSARKIDAFOHMQHEVQTMQOQQAHAATEDQ 998
 Qy 864 GKKNTQPSYPRFLFISTRLOSTEISPRVLSIGSAPI---QYAPVPUVKDRKGKPKPR 919
 Db 999 HKQEH-KLMARCFU--KLGEWOLN--LOGINESTIPKVLYQYSAATEHDRSMYKAWHA 1052
 Qy 920 QLLTDPSSAV-----IVBEDAKVQR-IDYANUTGIVSSSLSDSFVFLVQREDNQKGD 972
 Db 1053 WAVNFEAVLHYKQNGARDEDEKKURPHASANITATTATATTASTESSNSE 1112
 Qy 973 VVLDQD-----HVIETLTKT-----ALSADRVNN 997
 Db 1113 AESTENSPTEPSPLOKVTFEDLSKTRLLMTVPAVQGFFRSISLSRGNL 1160

RESULT 13
 US-08-360-144A-12
 Sequence 12, Application US/08360144A.
 Patent No. 6150137
 GENERAL INFORMATION:
 APPLICANT: Berlin, Vivian
 APPLICANT: Chiu, Maria Isabel
 APPLICANT: Cottarel, Guillaume
 APPLICANT: Damagnez, Veronique
 TIME OF INVENTION: IMMUNOSUPPRESSANT TARGET PROTEINS
 NUMBER OF SEQUENCES: 35
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: FOLEY, HOAG & ELIOT LLP
 STREET: One Post Office Square
 CITY: Boston
 STATE: MA
 COUNTRY: USA
 ZIP: 02109-2170
 COMPUTER READABLE FORM:
 MEDIAN TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/360,144A
 FILE NUMBER: 02109-2170
 FILE DATE: 20-DEC-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Vincent, Matthew P.
 REGISTRATION NUMBER: 36,709
 REFERENCE/DOCKET NUMBER: APV-036-0.02
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 617-832-1000
 TELEFAX: 617-832-7000
 INFORMATION FOR SEQ ID NO: 12:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1809 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-360-144A-12

Query Match 3.0%; Score 160; DB 3; Length 1809;
 Best Local Similarity 19.1%; Pred. No. 3.2e-05; Gaps 315; Indels 376; Gaps 46;

137 FYAETCPAPERGGAVR--DRLLQS-----NPVLEAFGNNAKTIEN--DNNSS--- 177
 382 FDAPPAPPLPERKAALETVILTELSIDFTDYASRILHPTVRLDOSPELRFSTAMDMLSSV 441
 ; GENERAL INFORMATION:
 ; APPLICANT: Berlin, V.
 ; APPLICANT: Cottarel, G.
 ; APPLICANT: Damagnez, V.
 ; TITLE OF INVENTION: IMMUNO-SUPPRESSANT TARGET PROTEINS
 ; FILE REFERENCE: PBI-F05-036
 ; CURRENT APPLICATION NUMBER: US/09/012,504A
 ; CURRENT FILING DATE: 1998-01-23
 ; PRIORITY APPLICATION NUMBER: 08/360,144
 ; PRIORITY FILING DATE: 1994-12-20
 ; PRIORITY APPLICATION NUMBER: 08/250,795
 ; PRIORITY FILING DATE: 1994-05-27
 ; NUMBER OF SEQ ID NOS: 35
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO: 12
 ; LENGTH: 1809
 ; TYPE: PRT
 ; ORGANISM: Mammalian
 US-09-012-504A-12

Query Match 3.0%; Score 160; DB 4; Length 1809;
 Best Local Similarity 19.1%; Pred. No. 3.2e-05;
 Matches 193; Conservative 121; MisMatches 318; Index 376; Gaps 46;

Qy 137 FYAETCPAPERGGAVR--DRLLQS-----NPVLEAFGNNAKTLRN--DNNSS--- 177
 Db 382 FDAPPAPPLPERKAALETVILTELSIDFTDYASRILHPTVRLDOSPELRFSTAMDMLSSV 441
 ;
 Qy 178 -RFGKMDVQFDFKGAPVGGHILSYLLEKSRVYHONH-----GERNFIVFY 222
 Db 442 FQLGKQTOFIP -----MWNKLVRHRINHQXDVLCRIVGTYLADBEEDPLY 492
 ;
 Qy 223 Q-----ILLEGGBEETIIRRGLIERNPQSYLIVKGQCQAKVSSINDSDWKKWNRKALSVIITED 280
 Db 493 QHMLRSGQDIALASGPVETGMKKH-----VSTINLQKAWGAAARR----- 534
 ;
 Qy 281 EVEDLISIVASVHLGNITHFAADEDSNAQVTTENQKYLIRLGVETTLREALTHRKII 340
 Db 535 -----VSKDDWLEWLRLR----- 547
 ;
 Qy 341 ARGBELLSPNLNEQAYARDALAKAVYRSTFTWLVRKINRSLAKDIAESPSMRSTVYLG- 399
 Db 548 --SIELLL-----KDSPPSPRSWCWALAAQ 568
 ;
 Qy 400 -----LLDIYGPENFQHNSPEQFCINYNCEKLNQQLF---IETLTUKEQFBEYEAEQIANEP 451
 Db 569 AYNPMARDLF-----NAFVSCMSELNEQQDELIRSLTSQD-----IA-EV 613
 ;
 Qy 452 VQYFNKICDVLBEKEFKGTSITLDE-----ECLRGPRATDLTFLKEDTYKLP 500
 Db 614 TQTLIN--IAEFMHEUSDQGPLPLADNGT-VLLGGERAKCGRAYA---LHYKELEFQKGP 668
 ;
 Qy 501 HPHFL-----THKLADQTKRSKSLDRGEPRLLHYAGEVTVYSTVGF----- 539
 Db 669 TPALLESLSINNKL--QPEAAAGVLEYAMKHF-GELEIQTAWYEKHLHEWEDALVAYDK 725
 ;
 Qy 540 -LDKNDNLIFRNLUKETMCCSMNPIMA-----QCFDKSELSDKRKEPETATQFKNSL 589
 Db 726 KMDTNKD-----DPEMLGMRMCLBALGNGWGLHQQCCEKWTLVN--DETOQKMARMA 777
 ;
 Qy 590 LQLVEILRSLRKEPAVIRCTXPNDAKQPRDEVILRHO-----VYXGLMENLVR 639
 Db 778 AAANGLQGQIDSMEETYC1MPRTDHDGAFYRAVLALHQDLSLAQQCIXKARDILDAELTA 837
 ;
 Qy 640 RAGFAYRKYEAFLORYKSLCPETWPMNAGRQDGVAVLVRHLYGKPE--YKMGRTKJ 696
 Db 838 MAGESYSRAGAMW-----C-----HMLSELBEVIOYKL----- 867
 ;
 Qy 697 FIREPKTLEFATEDSLEVRQSLATKIQIAWQRGPHWRQKELVERSALC---IQSWRGT 752
 Db 868 -----VPERRELIQIWWERLQGQRTIVEDWQKLMYSLVSPHEDMRTW--- 913
 ;
 Qy 753 LGRKKAAKKWAACITRILRGFTLRSRCPENAFIDHYRASFLNRLRQLPRLVD 811
 Db 914 -----LKYASLGCGSGRLLAHAKHTVLLGVD--PSQQLD 946
 ;
 Qy 812 TSWTPPPALREASELLRLPCMNMWVYCRSTSP-----EWKQOLQCKAVASRIEK 863
 Db 947 HPLPTVHPDVTYA-----YKRMN-WTSARKIDAFOHQMHQFYQTMQOQAQRIATEDDQ 998
 ;
 Qy 864 GKUDNYPQSPVPLFISTRIGTEELSPRVLQLSGSEPI---QYAVPVVYKDRKGKPRPR 919
 Db 999 HKCOPLH-KIMARCPFL--KLGEWQLN---LOGINESTLPKVLYQYSAATEHDSWYKWA 1052
 ;
 Qy 920 QLLITPSAVV-----IVEDAKYKQR-IDYANLTGIVSYSSLSDSLFTLVHQREDNFKGD 972
 ;
 Db 1053 WAYNFEEAWHYKHQNOQARDDEKCKLRLHASGANTNNTATAATTATTEGNSNSE 1112
 ;
 Qy 973 VVQSD-----HVIETLTKT-----ALSADRVNNI 997
 ;
 Db 1113 AESTENSPPSPSPLQKOTEDLSKLLWVYTPAVQGFFFRSISLSRGNNL 1160
 ;
 ;
 RESULT 14
 US-09-012-504A-12
 ; Sequence 12, Application US/09012504A
 ; Patent No. 6464974
 697 FIRFPKTFATEDSLSVRSRROSLATKQAAARGFHWYQKFEFLRKRSIC---IQSNWRGT 752
 868 -----VPERRELIQIWWERLQGQRTIVEDWQKLMYSLVSPHEDMRTW--- 913

